RCA

CPR 100
Owner's manual

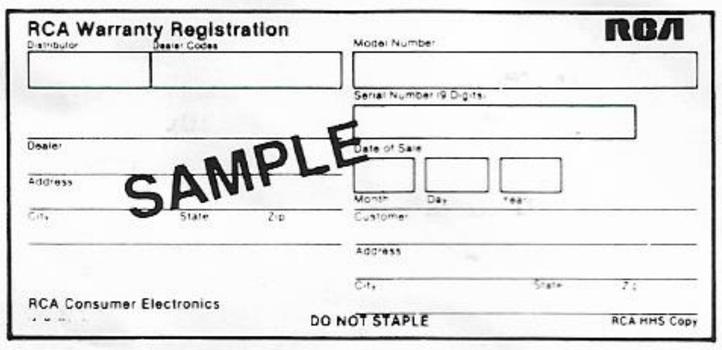
VHS C

SMALL VIDEO CAMCORDER

Warranty Registration

It is important that you record your RCA Camcorder serial number and other information here in case you need a complete description for any reason (such as theft). You will find the model and serial numbers on the bottom of the Camcorder. You also will find both numbers recorded on your registration form.

If your dealer did not give you a copy of your Camcorder's registration, contact your dealer promptly and ask for it. If your Camcorder is not registered, we will not be able to contact you should there be a safety inspection, modification, or product recall under applicable laws or regulations. Also, you should be able to show your registration or evidence of purchase date to receive warranty parts and service. *We suggest you attach your sales slip and warranty registration to this booklet and keep them in a safe place for future reference.*


RCA Warranty Registration

RCA

Distributor | Dealer Codes

Model Number

Serial Number (9 Digits)

Dealer

Date of Sale

Address

Month | Day | Year

City | State | Zip

Customer

Address

City | State | Zip

SAMPLE

RCA Consumer Electronics

DO NOT STAPLE

RCA HHS Copy

Purchase Date _____

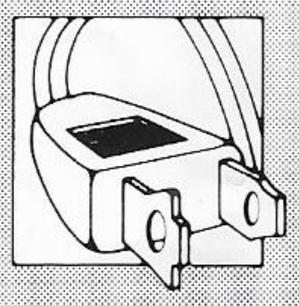
Dealer Name & Address _____

_____

Model: **CPR100** Serial Number: 650660025

Safety Precautions

Your Video Camcorder AC Adapter/Charger will operate on 100-240 volts AC, 50/60 Hz, and has a polarized plug. Because one blade of the plug is wider than the other, the plug fits in the wall socket only one way. Do not defeat the safety feature of this plug. If you need an extension, use a polarized cord.



CAUTION: To prevent electric shock, do not use the polarized plug on this Video Camcorder or AC Adapter/Charger with an extension cord, receptacle, or other outlet unless the blades can be inserted fully to prevent blade exposure.

MISE EN GARDE: Pour prévenir les chocs électriques, ne pas utiliser la fiche polarisée de cet appareil avec une rallonge, une prise de courant ou une autre sortie, à moins que les lames ne puissent être insérées à fond sans qu'aucune partie ne soit laissée à découvert.

CAUTION: To reduce the risk of electric shock, do not remove the cover or back. No user-serviceable parts are inside. If you spill liquid on the Camcorder, disconnect the AC Adapter/Charger power cord to prevent possible fire or shock hazard and consult authorized service personnel. Moisture can damage internal parts. Refer all service to RCA Authorized Video Camera/Camcorder Servicenter personnel only.

CAUTION: Read "Important Safety Instructions for AC Adapter/Charger" on Page 2 before use.

CAUTION: Maintain electrical safety. Powerline-operated equipment or accessories connected to this unit should bear the UL listing mark or CSA certification mark on the accessories themselves and should not have been modified so as to defeat the safety features. This will help avoid any potential hazard from electric shock or fire. If in doubt, contact qualified service personnel.

WARNING: To prevent fire or shock hazard, do not expose Camcorder or AC Adapter/Charger to rain or moisture.

Illustrated below is the label on the back of your AC Adapter/Charger and also on the bottom of your Video Camcorder.

The symbol of a lightning flash within a triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure and which may be of sufficient magnitude to constitute a risk of electric shock.

An exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the product.

IMPORTANT SAFETY INSTRUCTIONS FOR AC ADAPTER/ CHARGER

- Before using AC Adapter/Charger, read all instructions and cautionary markings on (1) AC Adapter/Charger, (2) battery, and (3) product using battery.
- **CAUTION:** To reduce risk of injury, charge only rechargeable batteries, type CBC060/CBC120. Other types of batteries may burst, causing personal injury and damage.
- **CAUTION:** To reduce risk of injury, do not attempt to mount the AC Adapter/ Charger to the Camcorder while a battery is attached to Adapter/Charger. Always remove Adapter/Charger from Camcorder before charging battery.
- Do not expose charger to rain or snow.
- Use of an attachment not recommended or sold by the battery charger manufacturer may result in risk of fire, electric shock, or personal injury.
- To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
- Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- Use of improper extension cord could result in risk of fire and electric shock. If extension cord must be used, make sure that:

  (1) Pins on plug of extension cord are the same number, size, and shape as those of plug on charger.

  (2) Extension cord is wired properly and in good electrical condition.

  (3) Wire size below is met.

Minimum AWG size	Length of extension cord (feet)
18	Equal to or less than 100
16	Equal to or less than 150

- Do not operate charger with damaged cord or plug—replace them immediately.
- Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way. Take it to qualified service personnel.
- Do not disassemble charger. Take it to an RCA Authorized Video Camera/ Camcorder Servicenter when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
- To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.

Introduction

Congratulations on your choice of an RCA Camcorder. You have selected a precision-engineered product designed to give you years of performance and enjoyment.

Although your Camcorder is very simple to use, it is important that you read and follow the directions in this guide carefully until you are completely familiar with the proper operation procedures. This manual is arranged in the order that we anticipate you will use it to operate your new Camcorder. If you follow the instructions one step at a time, you should be able to use your Camcorder like a pro in about an hour. If you should experience a problem, always refer first to the troubleshooting chart on Page 19. In many cases a simple solution is all that's needed; it could save you a costly service call.

BE SURE TO SAVE THESE OPERATING INSTRUCTIONS

for future reference. Should your Camcorder require service during the warranty period, refer to the back cover of this manual for a description of what RCA will do and for instructions on how to request service.

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Features and Functions

What Your Camcorder Can Do For You

Your RCA Camcorder combines the features of a video camera and of a VHS compact VCR in one lightweight, easy-to-use unit. As a result, you now can do all of the following:

- **Make your own home video movies.** Tape your video memories quickly and easily, with color and sound, on inexpensive VHS-C cassettes. To combine picture quality with efficient use of tape length, your Camcorder records and plays back tapes at two speeds: 1) SP (Standard Play-20 minutes) and 2) SLP (Super Long Play-1 hour).
  NOTE: Compact cassettes record for one hour at SLP speed.
- **Play back tapes immediately through built-in electronic viewfinder.** Black & white electronic viewfinder shows exactly what is being recorded during taping–and allows "instant replays" after recording so you can review what you have taped.
- **Play back pre-recorded tapes on standard TV or Monitor.** With included cables, you can use your Camcorder to play your VHS-C tapes on any TV. Adapters are included for use either with a standard TV or a Video Monitor. (Tapes must have been recorded in SP or SLP speed.)
- **Record from another VCR or Monitor.** With an optional adapter, you can hook up your Camcorder to another VCR or Monitor and use the Camcorder to record TV shows or to copy your home tapes.
- **Use your Camcorder on AC or DC (battery) power.** An AC Adapter/Charger and a Rechargeable Battery are included with your Camcorder. With the AC Adapter/Charger attached, you can power the Camcorder from the nearest AC outlet. With the charged battery attached, you can use your Camcorder virtually anywhere for up to one hour. And with an optional 12-volt DC cord, you even can power the Camcorder from your car's cigarette lighter socket.
- **Use your Camcorder virtually anywhere in the world.** The Camcorder's AC Adapter/Charger operates on 100-240 volts AC, 50 or 60 Hz, giving it the versatility to operate in most foreign countries. Before taking your Camcorder on vacation, however, consult your RCA dealer; you may need a plug adapter in some countries.
- **Create professional-looking video productions.** Your Camcorder has the latest convenience features to make your videotaping as trouble-free and enjoyable as possible. You can zoom in or out at the touch of a button. The Camcorder will adjust focus automatically so you don't have to bother. Color balance also is controlled automatically–indoors or out. A "quick review" button lets you double check recording results and set up your scene. Both Visual Search and a tape counter are available so you can locate specific scenes on tape. There's even a viewfinder adjustment that makes it easy to use the Camcorder if you wear eyeglasses.
- **Add optional accessories for greater creative versatility.** RCA offers a full line of compatible accessories to increase your creative range when making video productions with your Camcorder.

RCA Video Cassettes

NOTE: To insert and remove a cassette, be sure to connect a power source to your Camcorder.

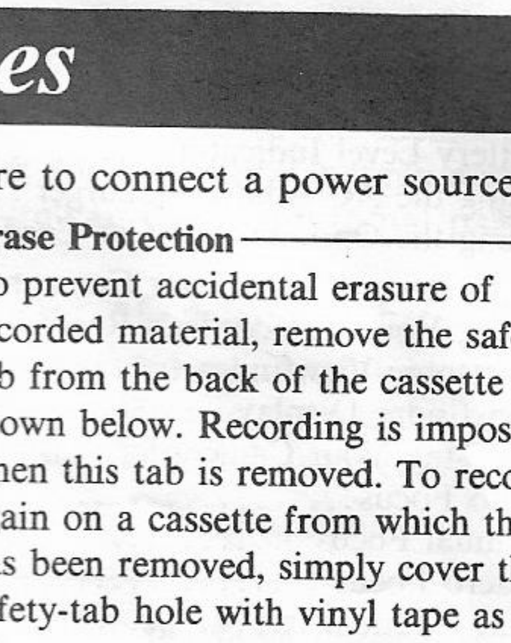
Video Cassettes

RCA recommends that RCA cassettes be used with this unit. The tape in these cassettes is of high-quality formulation. It has been manufactured to RCA's critical specifications for excellent performance. Use of tape not meeting these specifications could reduce the performance of your Camcorder considerably.

Use of poor quality tapes or tapes that have been damaged or mishandled can clog the video heads, resulting in a snowy picture or no picture at all during playback. Because RCA has no control over the types of tape purchased or rented by consumers, **head cleaning is not covered by RCA's warranty.** Playing a new RCA tape for approximately 15 minutes may satisfactorily clean the heads and improve the picture. If a snowy picture or a no-picture condition persists, consult your RCA Authorized Servicenter or the RCA Service Company.

Erase Protection

To prevent accidental erasure of recorded material, remove the safety tab from the back of the cassette as shown below. Recording is impossible when this tab is removed. To record again on a cassette from which the tab has been removed, simply cover the safety-tab hole with vinyl tape as shown.



Recording Time

The Camcorder records and plays back in VHS SP and SLP speeds. Listed below are the maximum recording times at each speed using TC-20 tape.

TAPE SPEED	RECORDING TIME
SP (Standard Play)	20 Min.
SLP (Super Long Play)	1 Hr.

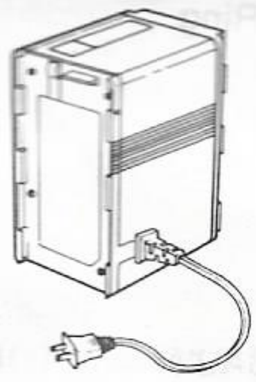
SP speed provides the best picture quality but the shortest recording time (20 minutes). SLP speed provides slightly reduced picture quality, but longer recording time (1 hour).

Notes:

- The Tape Speed Selector switch on the Camcorder (*SP SLP*) has no effect during playback. When playing tapes, tape speed is selected automatically.
- If you intend to play your VHS-C tapes back on a 2- or 3-head home VCR, SLP may give you better special effects (Stop Action, Search, Slow Motion) performance.

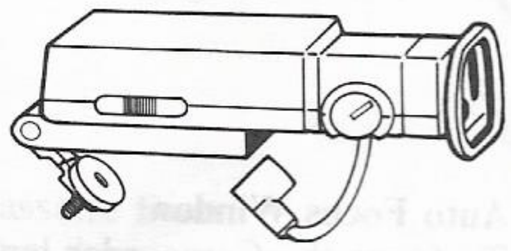
Preparations for Use

1. Camcorder



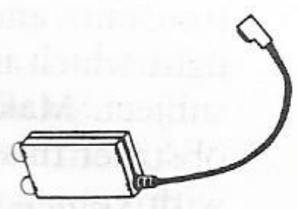
2. AC Adapter/Charger

3. Rechargeable Battery Pack

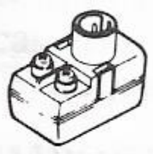


4. Electronic Viewfinder

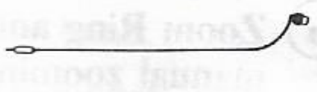
5. Audio/Video Adapter Cable



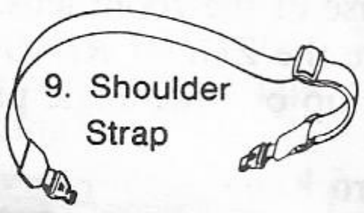
6. RF Adapter



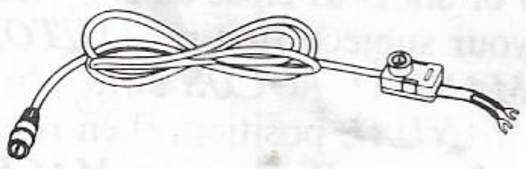
7. 300/75-ohm Transformer



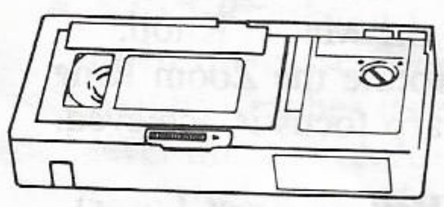
8. Earphone



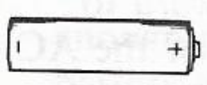
9. Shoulder Strap



10. Coaxial RF Cable



11. Cassette Adapter



12. Battery for Cassette Adapter

13. VHS-C Video Cassette

Unpacking Your Camcorder

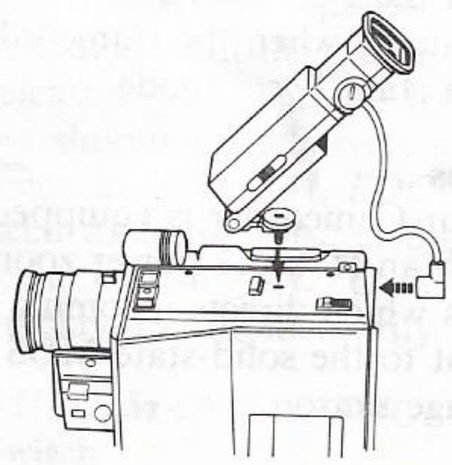
Since you are reading this manual, you obviously have opened your Camcorder's packing box and probably have unpacked most of the items in it. Once you've removed the packing materials, *the first thing you should do* is make sure you have everything you need. In the Camcorder's box, you should find the following items:

1. the Camcorder itself;
2. an AC Adapter/Charger;
3. a rechargeable battery pack;
4. an electronic viewfinder;
5. an audio/video adapter cable;
6. an RF (TV Playback) adapter;
7. a 300/75-ohm transformer.
8. an earphone;
9. a shoulder strap;
10. a coaxial RF cable;
11. a cassette adapter;
12. a battery for the cassette adapter;
13. a VHS-C cassette;

If any of these items are missing or appear damaged, contact your RCA dealer immediately. Also, you should save all of the packing materials; they will come in handy if you have to store or ship the Camcorder. To prepare your Camcorder for initial use, you will need only the Camcorder, AC Adapter/Charger, rechargeable battery, compact video cassette, and viewfinder. Put the other items aside for now. We will discuss their use later in this guide.

Attaching Viewfinder

1. Position Viewfinder on top of Camcorder and tighten screw.



2. Plug Viewfinder cable into jack labeled *VIEWFINDER*.

Quick Operation Steps for Experienced Users

If you've used a video camera and VCR before, you probably can get your Camcorder up and running quickly by using the following steps:

1. Attach the viewfinder to the Camcorder.

2a. For AC operation, attach the AC adapter/charger (see Page 10), and plug it into an AC outlet.

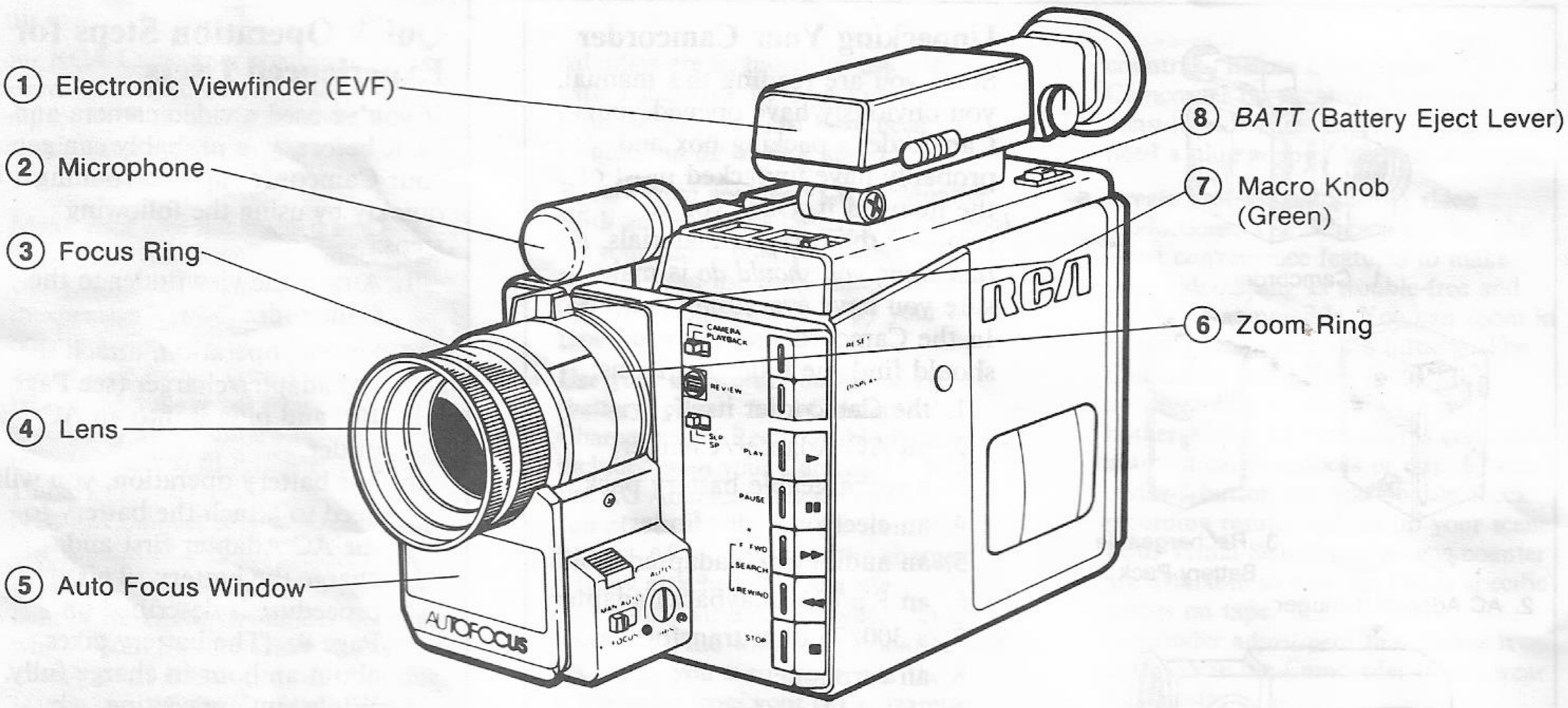
2b. For battery operation, you will need to attach the battery to the AC Adapter first and charge the battery. This procedure is described on Page 9. (The battery takes about an hour to charge fully. While you are waiting, why not read the rest of this manual.) After the battery is charged, attach it to the Camcorder, following the directions on Page 9.

3. Set the *FOCUS* and *IRIS* switches to their *AUTO* positions.

4. Slide the Camcorder's *POWER* button, and you are ready to go. Remember that the Camcorder uses compact VHS-C video cassettes and records at either the SP or SLP speed. After inserting a cassette, place the *PLAYBACK/CAMERA* switch in *CAMERA* position for recording, and in *PLAYBACK* position for playback through the viewfinder. The thumb trigger control switches you from *RECORD* to *PAUSE* with a single touch when in *CAMERA* mode.

5. After using the Camcorder for the first time, be sure to read the rest of this manual for full details of features, accessories, and proper care.

Location and Use of Controls



Camcorder Operating Controls and Their Functions

Pages 5 through 8 tell you where Camcorder controls are located and what they do. As you read the description of each control, familiarize yourself with its location by finding it on your Camcorder.

(1) Electronic Viewfinder (EVF)
The electronic viewfinder displays what the Camcorder lens sees. The electronic viewfinder also functions as a convenient black & white monitor during playback of recorded video.

(2) Microphone
The microphone is mounted on the Camcorder and is most sensitive to sounds coming from the direction in which the lens is pointed.

(3) Focus Ring
Turning this ring will change the focus of the lens when the Camcorder is in the Manual Focus mode (*AUTO/MANUAL* switch in the *MANUAL* position.)

CAUTION: Do not attempt to turn the *FOCUS RING* manually when the Camcorder is in *Auto Focus* mode.

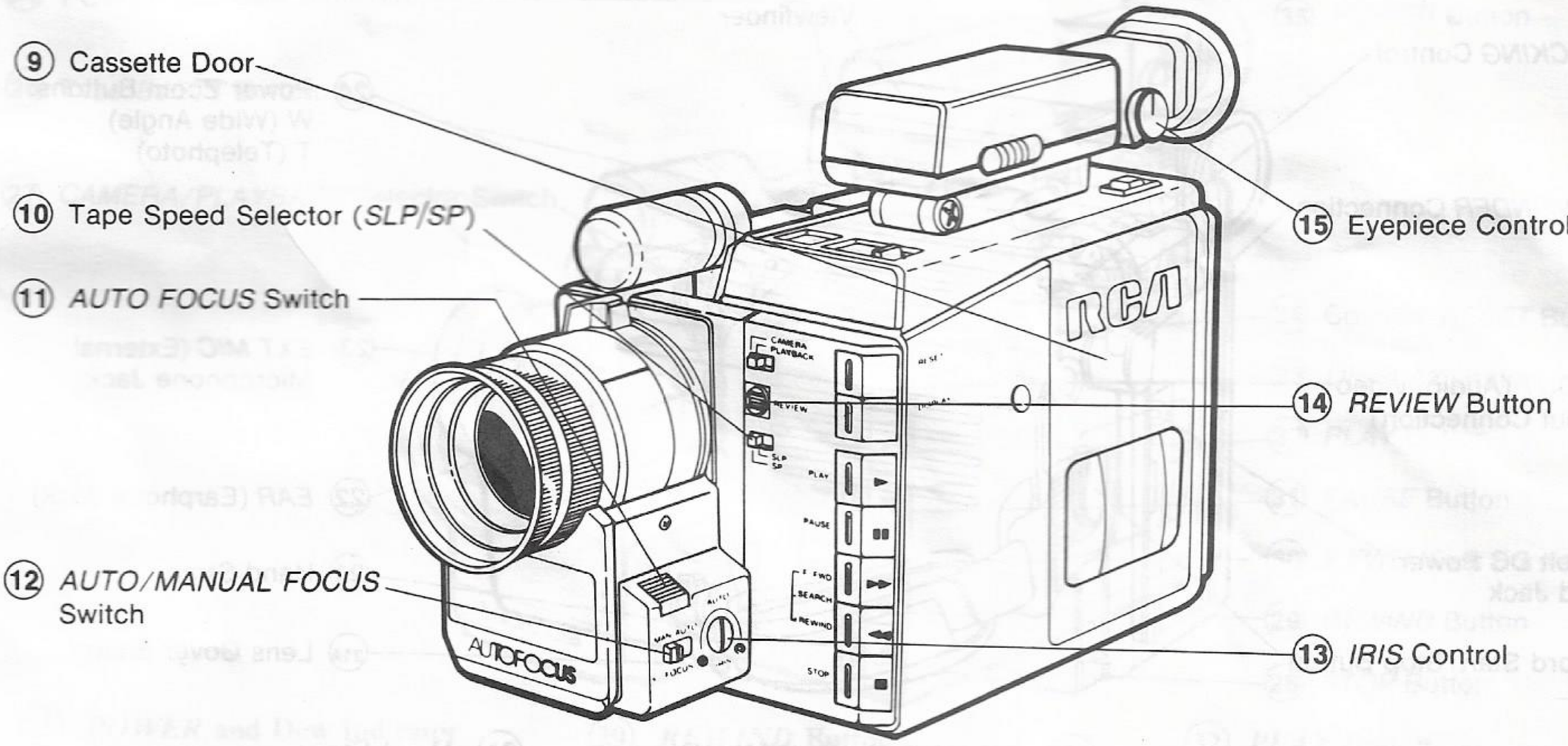
(4) Lens
Your Camcorder is equipped with an f1.4, 6:1 power zoom lens which directs incoming light to the solid-state MOS image sensor.

(5) Auto Focus Window
To focus the Camcorder lens automatically, this window transmits and receives infrared light which is reflected off the subject. Make sure you don't obstruct this window (such as with your hand) when recording.

(6) Zoom Ring and Lever (for manual zooming)
The size of the picture you are recording can be magnified with the use of the zoom lens. Just rotate the *ZOOM RING* for a close-up or wide-angle picture.

(7) Macro Knob
For shots as close as 3/8" from your subject, first put *AUTO/MANUAL FOCUS* switch in *MANUAL* position, then rotate the Zoom Ring to the *MACRO* position while pushing in and holding the Macro Knob. Slowly rotate the Zoom Ring until sharp focus is achieved.

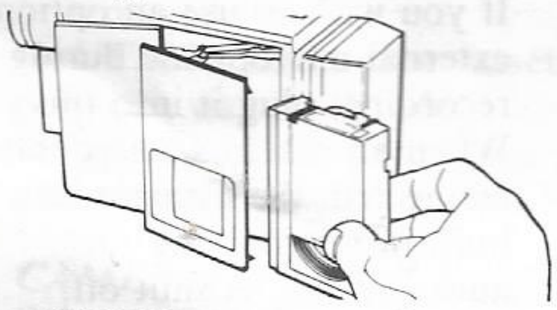
(8) *BATT* (Battery Eject Lever)
Slide this lever *forward* to release the battery or the AC Adapter/Charger from the Camcorder. Hold lever forward while lifting battery up and off to remove it from Camcorder.



(9) Cassette Door
This door can be opened for cassette insertion or removal whenever the battery or adapter/charger is attached to the Camcorder. To open the cassette door, press the *EJECT* button on Camcorder's top control panel. Insert a VHS-C cassette (compact VHS) and close the door by hand.

IMPORTANT NOTES:

- Insert a tape cassette only one way: with safety tab facing to the rear of the Camcorder and tape window facing out.



- *NEVER* attempt to force open the cassette door. If the battery reaches its empty level during recording, the Camcorder will shut off. Normally there will be enough power left in the battery to eject the tape. If not, simply recharge the battery or power your Camcorder with the AC Adapter/Charger before attempting to eject the tape.

(10) Tape Speed Selector (*SLP SP*)
This switch selects the recording speed. "SP" provides the best picture quality but the shortest recording time (20 minutes). "SLP" provides slightly reduced picture quality, but longer recording time (1 hour).

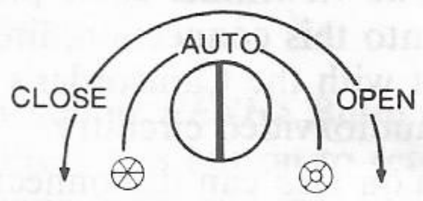
Notes:

- Tape Speed Selector has no effect during playback. When playing tapes, tape speed is selected automatically.
- If you intend to play your VHS-C tapes back on a 2- or 3-head home VCR, SLP may give you better special effects (Stop Action, Search, Slow Motion) performance.

(11) *AUTO FOCUS* Switch
When this switch is depressed and held down, automatic focus is activated and remains activated until the switch is released. This is useful if you are shooting a relatively static scene in *MANUAL FOCUS* and need to adjust for a change in scene by using *AUTO FOCUS* quickly and momentarily.

(12) *AUTO/MANUAL FOCUS* Switch
Set this switch to the *AUTO* position for automatic focus and to the *MANUAL* position when you wish to use the Focus Ring.

(13) Iris Control
With this control in the *AUTO* (center) position, the Camcorder automatically adjusts the lens opening for the best picture. The lens iris opening also can be adjusted manually to compensate for unusual lighting. When the subject is in bright light and the background is dark, turn this control counterclockwise to close the lens iris opening. When the background is in bright light and the subject appears too dark, adjust the control clockwise to open the lens iris.



(14) *REVIEW* Button
Press the *REVIEW* button while the Camcorder is in the Record/Pause mode to view the last few seconds of a completed recording segment.

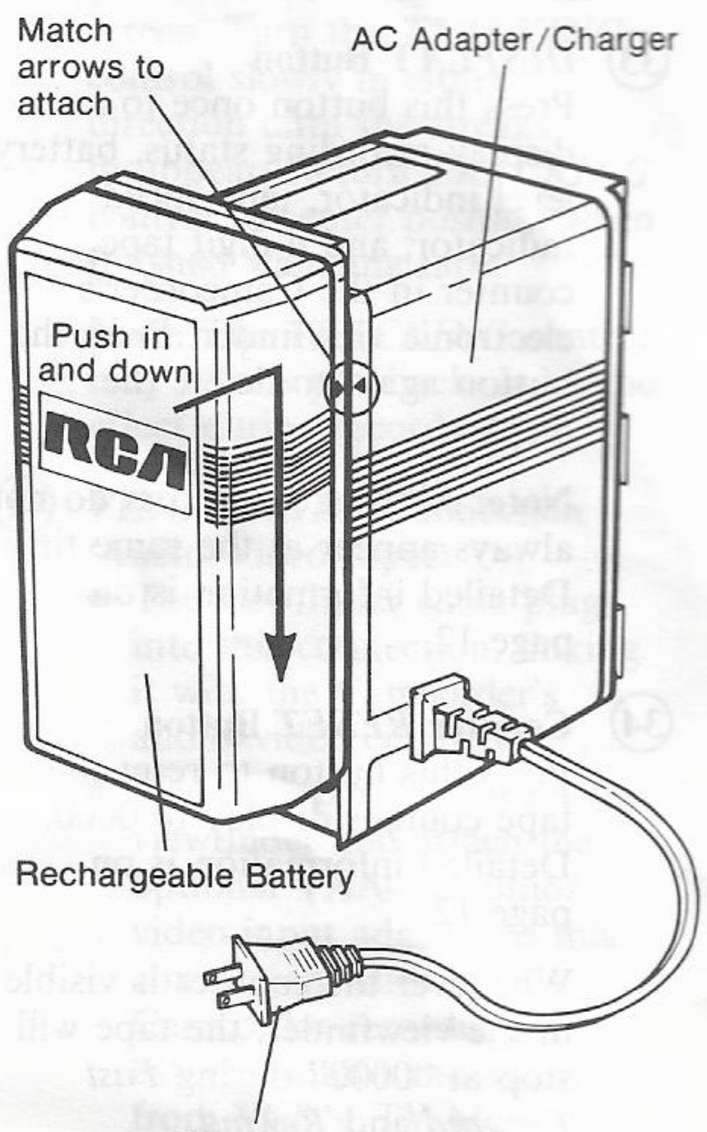
(15) Eyepiece Control
Use this control to adjust viewfinder focus. These adjustments will not affect the focus of the image recorded by the Camcorder. This control permits most users who wear glasses to remove them while operating the Camcorder.

Basic Operation: Power Supplies

How to Power Your Camcorder

Your Camcorder is designed to be used with any of three different power sources. When videotaping in locations away from conventional AC power sources, you may power your Camcorder by using the battery; or power it from the cigarette lighter socket in your car using RCA's optional DCC012 DC car cord. The Camcorder also may be powered by household current (100-240 volts AC, 50/60 Hz) when using the supplied AC Adapter/Charger. The AC Adapter/Charger even lets you use your Camcorder in most foreign countries. (You may need a plug adapter in some countries; consult your RCA dealer.)

These two pages will tell you how to charge and attach the battery to your Camcorder as well as how to power the Camcorder from AC power or from the cigarette lighter of a car.



CAUTION: When a battery is attached, do not turn the AC Adapter/Charger upside down. The battery may fall off and be damaged or cause injury.

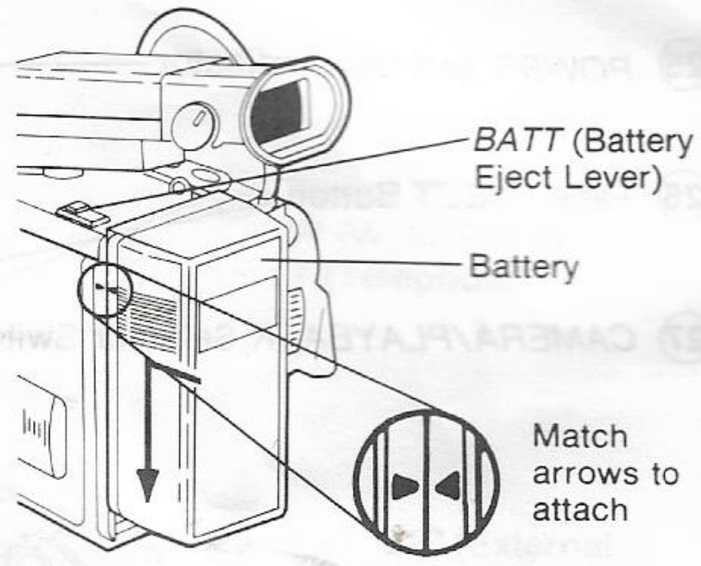
Charging Your Battery

Recharging the Camcorder's standard battery takes approximately one hour, depending on the battery's condition. After repeated charging and use, operation time gradually may decrease. When operation time becomes too short to be useful, it's time to replace the battery.

When fully charged, your Camcorder battery should supply about one hour of operating time. An optional RCA long-play battery (Model CBC120) also is available if you need extended battery time for your Camcorder. Both the standard and optional batteries are charged using the procedures below.

1. Attach the battery to the AC Adapter/Charger as shown at left. Align the reference arrow on the battery with the arrow on the back of the AC Adapter/Charger. Then push the battery flush with the adapter and slide the battery downward.
   Note: The Adapter/Charger must be removed from the Camcorder before you can charge the battery.
2. Plug the AC Adapter/Charger into the nearest AC outlet (100-240V, 50/60 Hz).
3. The Charge indicator will light while the battery is being charged. When the light goes out, the battery is fully charged.
4. Remove the battery from the AC Adapter/Charger by sliding the battery up and off.

The next section will show you how to attach the charged battery to your Camcorder.



Using the Battery to Power Your Camcorder

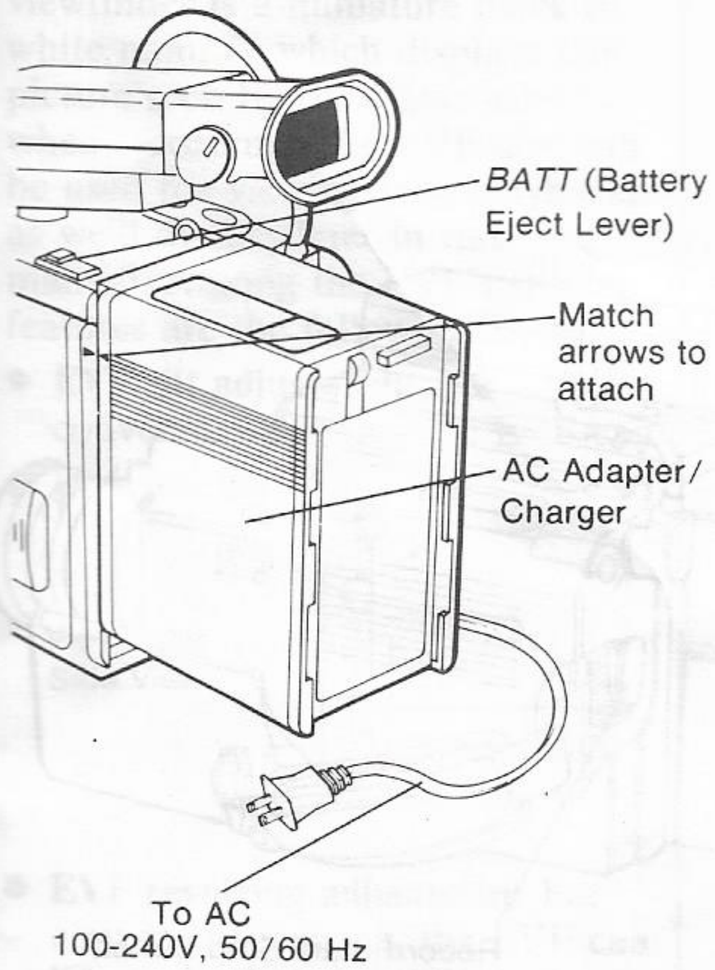
1. Align the arrow on the battery with the arrow on the back of the Camcorder.
2. Push the battery flush against the Camcorder and slide it down until it clicks into place.
3. Slide the Camcorder's *POWER* button. If the battery is properly connected, the *POWER* indicator should light.
4. To remove the battery, slide and hold the Battery Eject lever (BATT) while sliding the battery up.

Battery Level Indicators

Whenever the tape counter is present in the viewfinder, it appears with a 3-dash readout indicating the approximate status of Camcorder battery power. When the battery is fully charged, the display reads "E - - - F". After several minutes, only two dashes appear. When the battery is very nearly empty, the "E" flashes. When the "E" begins to flash, you should find an alternative power source or recharge the battery.

CAUTION: When the battery reaches its empty level during use, the Camcorder will shut off. When this occurs there will normally be enough power left in the battery to eject the tape. If not, **do not attempt to force the cassette door open.** This will damage your Camcorder. To remove the cassette, simply power your Camcorder with the AC Adapter/Charger or recharge the battery before attempting to eject the tape.

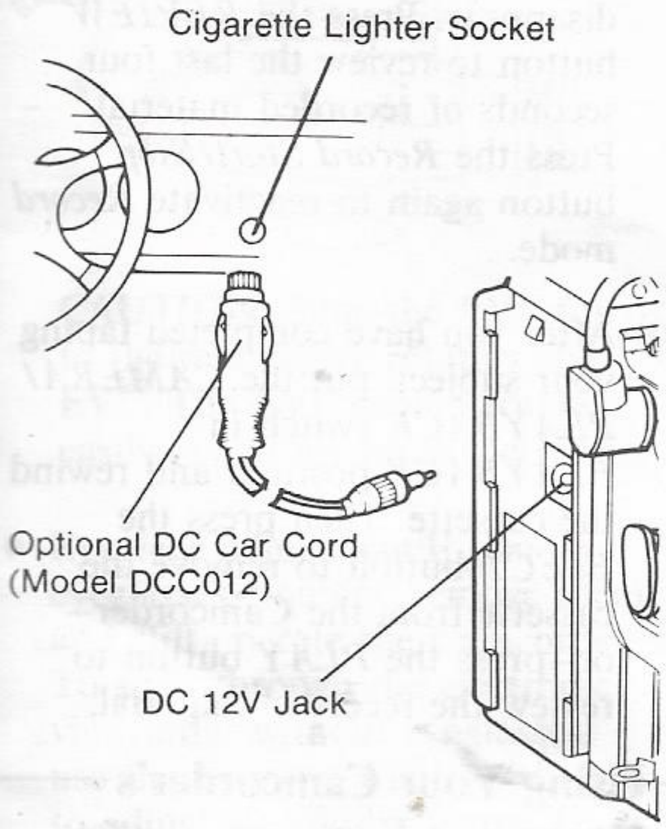
Using the AC Adapter/Charger to Power Your Camcorder



1. Align the arrow on the Adapter/Charger with the arrow on the back of the Camcorder.
2. While holding the Adapter/Charger against the back of the Camcorder, slide the Adapter/Charger down until it clicks into place.
3. Plug the Adapter/Charger into the nearest AC outlet (100-240V, 50/60 Hz).
4. Slide the Camcorder's *POWER* button. If the AC Adapter/Charger is connected properly, the Power indicator should light.
5. To remove the AC Adapter/Charger, slide and hold the Battery Eject lever (*BATT*) while sliding the Adapter/Charger up and off.

NOTE: The AC Adapter/Charger cannot be attached to the Camcorder during battery charging. Be sure to remove the Adapter/Charger from the Camcorder whenever you want to recharge the battery.

Using the Optional DC Car Cord to Power Your Camcorder



To power your Camcorder from a car's 12-volt electrical system, you will need RCA's optional DCC012 DC car cord. The proper steps for using the Camcorder with the DC car cord are outlined below.

1. Connect the small plug on the DC car cord to the *DC 12V* jack on the back of the Camcorder.
2. Insert the other end of the DC car cord into the vehicle's cigarette lighter socket.
3. Slide the Camcorder's *POWER* button. If the car cord is properly connected, the Power Indicator should light. Your car's ignition does not have to be turned on for Camcorder operation.

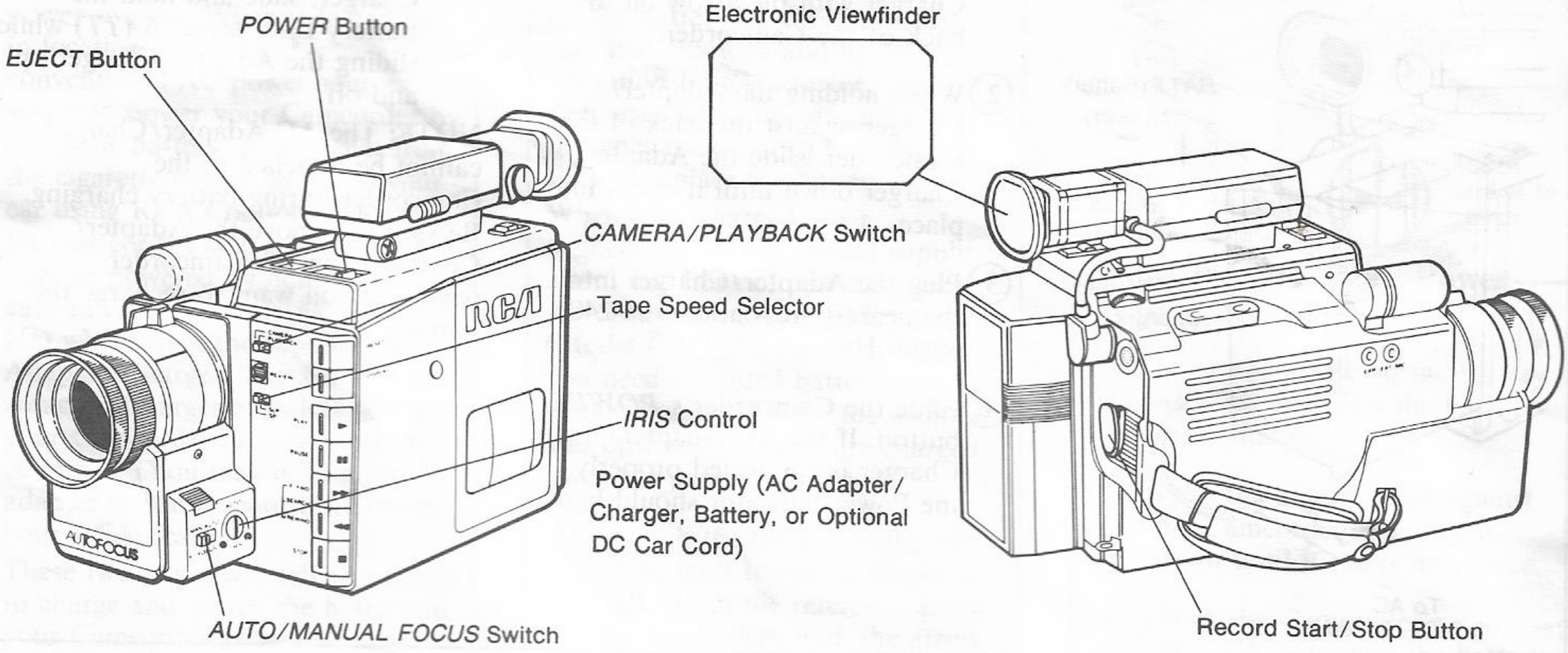
CAUTION: The DCC012 DC car cord is designed to be used only with automobiles having 12-volt *negative ground* electrical systems.

WARNING: To avoid possible damage to camcorder, make sure the car cord you plan to use has positive tip polarity such as RCA model DCC012 and is used with a 12-volt negative ground electrical system.

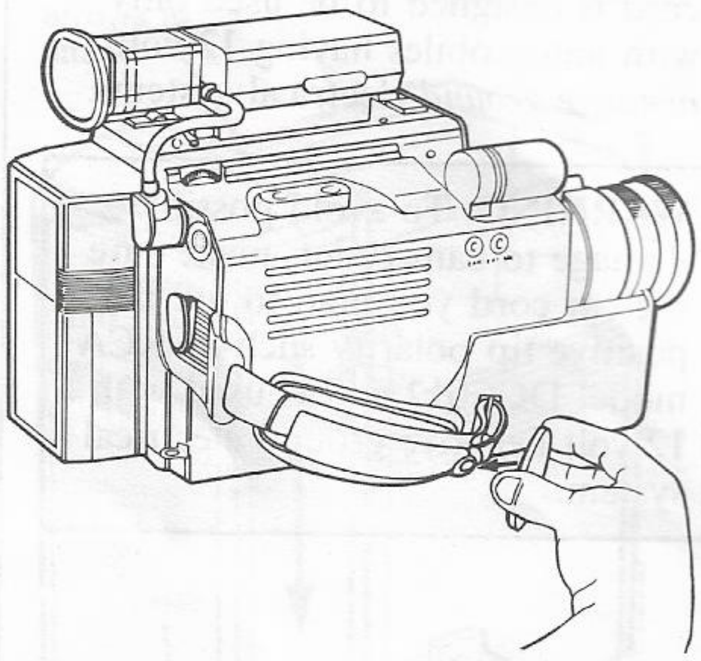
Basic Operation: Recording

How to Record With Your Camcorder

After you have connected your Camcorder to a power source (AC Adapter/Charger, battery, or DC cord), use the following steps to make a recording.



1. Remove lens cap and snap it on the hand strap to keep it out of your way.



2. Slide the Camcorder's *POWER* button. The *POWER* light should come on.

3. Put the Camcorder's *PLAYBACK/CAMERA* switch in the *CAMERA* position.

4. Set the *AUTO/MANUAL FOCUS* switch to *AUTO FOCUS* position, and set the IRIS control to *AUTO* position.

5. Set the Tape Speed Selector to either the SP or SLP speed.

   Note: SP will record 20 minutes and SLP will record 1 hour with an RCA TC-20 tape.

6. Press the Camcorder's *EJECT* button, insert a compact VHS-C cassette and close the cassette door.

   CAUTION: Insert cassette tape only one way: with safety tab facing to the rear of the Camcorder and tape window facing out.

7. Put your eye to the Camcorder viewfinder and select a scene you wish to record. What you see in the viewfinder is what will be recorded on tape. (The recording will be in color when played back on a TV set.)

8. Press the *Record Start/Stop* button (red thumb control) to begin recording. The "*REC*" indicator graphic will appear in the viewfinder. (It is not necessary to hold down the *Record Start/Stop* button.)

9. Press the *Record Start/Stop* button again to stop recording and enter the *Pause* mode. The "*REC*" viewfinder indicator will disappear. Press the *REVIEW* button to review the last four seconds of recorded material. Press the *Record Start/Stop* button again to reactivate *Record* mode.

10. After you have completed taping your subject, put the *CAMERA/PLAYBACK* switch in *PLAYBACK* position and rewind the cassette. Then press the *EJECT* button to remove the cassette from the Camcorder—or—press the *PLAY* button to review the recorded material.

Using Your Camcorder's Recording Features

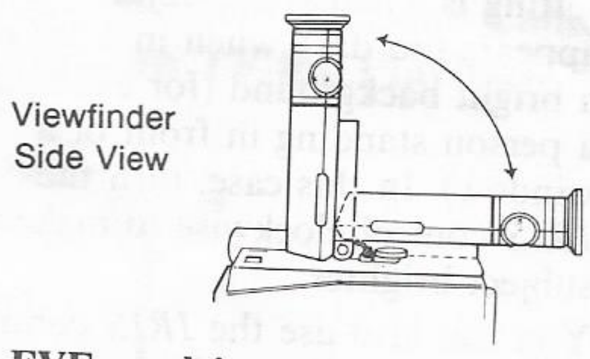
The steps above give you the basics of activating Camcorder recording. However, you also should get to know the Camcorder's special feature, which will help you make good-looking recordings. These features are described on pages 12–13 and can help you shoot like a pro—even if you've never used a video camera or recorder before.

Recording Features

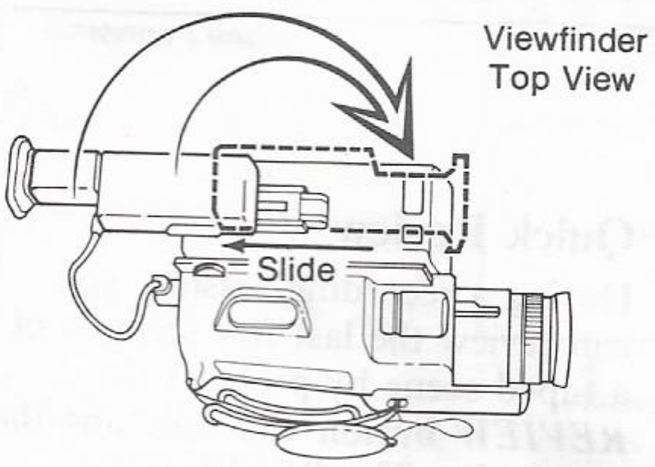
Electronic Viewfinder (EVF)

The Camcorder's electronic viewfinder is a miniature black & white monitor which displays the picture seen by the Camcorder when recording. The EVF also can be used for viewing tape playback, as we'll discuss later in this manual. Among the EVF's special features are the following:

- **EVF tilt adjustment:** For convenient viewing, the EVF can be tilted about 90° up.

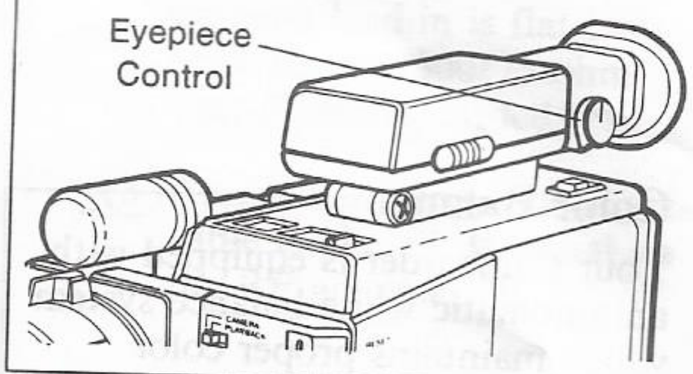


- **EVF revolving adjustment:** For convenient viewing, the EVF can be revolved about 180°.

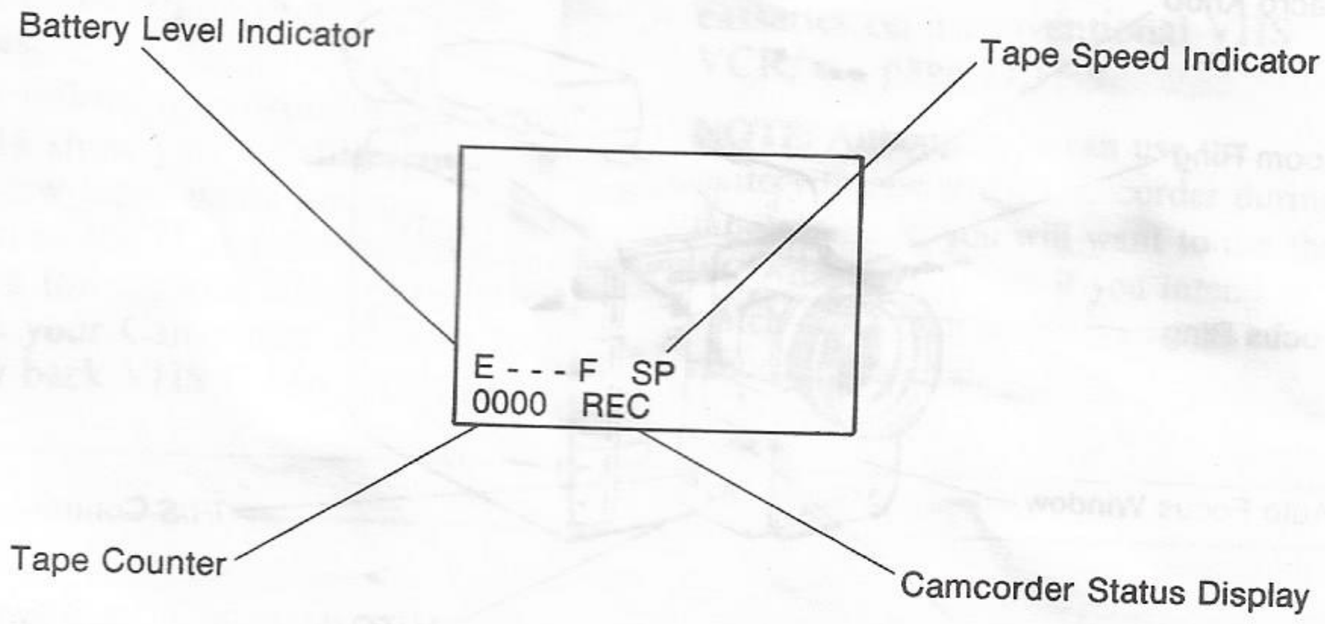


CAUTION: Slide the EVF fully to the rear *before* rotating the EVF. The EVF should rotate easily . . . *do not* force the EVF.

- **Eyepiece adjustment:** If you wear eyeglasses, you can remove them and still operate the Camcorder. To sight through the electronic viewfinder without eyeglasses, use the *Eyepiece Control* (shown) to adjust viewfinder focus. This will not affect the focus of the image actually recorded by the Camcorder.



Viewfinder Display



Pressing the *DISPLAY* button on the front of the Camcorder causes two to four of the status displays to appear in the viewfinder: battery level indicator, tape speed indicator, tape counter, and recording status display. Pressing the *DISPLAY* button a second time deletes these displays from the viewfinder.

- **Battery level indicators:** A battery level graphic appears whenever the tape counter is present in the viewfinder. This graphic helps keep you aware of approximately how much battery time is available to power your Camcorder. (For a complete description of how these indicators function, see Page 9.)

The "*E*" graphic will begin to flash during recording when the battery level is near empty.

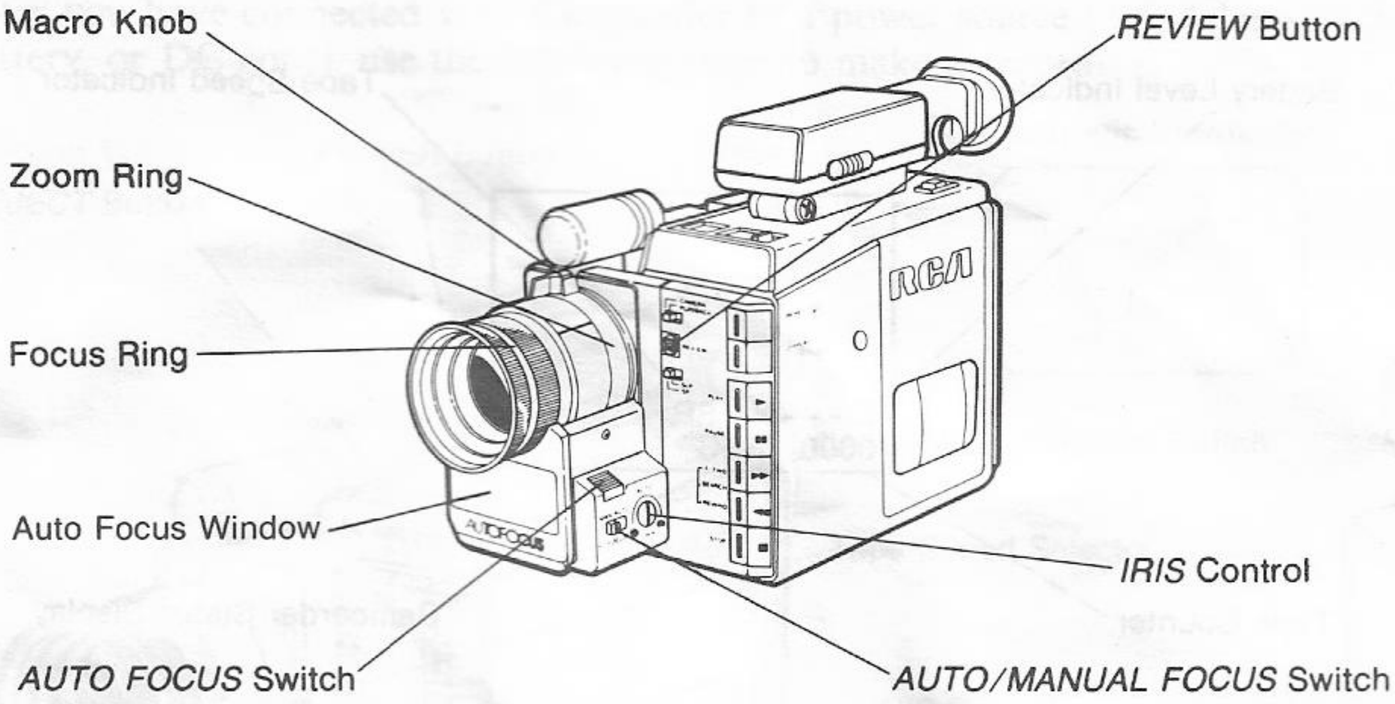
- **Tape speed indicator:**
  For recording—The tape speed indicator displays "SP" if you have selected the *SP* speed using the tape speed selector. Nothing is displayed when you select *SLP*.
  For playback—The tape speed indicator displays "SP" if you are playing back a tape that was recorded in the SP speed. Nothing is displayed if the tape you are playing back was recorded in SLP.

- **Tape counter with memory:** Pressing the *DISPLAY* button on the Camcorder's front panel causes a 4-digit counter display to appear in the viewfinder (along with the other graphics described in this section). The tape counter acts as a handy reference to help you locate taped segments. Press the *RESET* button to set the counter to "0000" before starting to record or play. Note the number on the tape counter at the beginning and end of each program you record. This will allow you to use the counter to locate desired programs.
  The tape counter also includes a "memory" feature. When the counter is displayed, the tape automatically stops when the counter reads "0000" during Fast Forward and Reverse. This is useful if there is a section of tape you want to review immediately after recording or if you want to return to the same point several times in a row.
  To use the counter memory, reset the counter to 0000 when you reach the point you want to index on a tape. Continue to record on or play the tape. When you wish to return to the index point, simply press *REWIND* button. The tape will stop rewinding when the counter reaches "0000". Press *REWIND* again if you want to continue rewinding. (NOTE: *PLAYBACK/CAMERA* switch must be in *PLAYBACK* position.)

- **Status display:** The status graphics displayed in the viewfinder include "*FF*" (Fast Forward), "*REW*" (Rewind), and "*REC*" (Record). The "*REC*" graphic will flash when only approximately 5 minutes of recording time remains on a tape. Change tapes to avoid running out during your recording.

Recording Features, cont'd.

Focusing Your Camcorder



- **Auto Focus:** Set the *AUTO/MANUAL FOCUS* switch to the *AUTO* position for automatic focus operation.

Note: The Camcorder's Auto Focus system uses infrared light and will focus on the nearest object which reflects this light. The following cautions should be observed when using Auto Focus:

1. Sloping or inclined surfaces may not be in focus because the reflected light will not be returned to the Auto Focus window.
2. When shooting through a window, the Auto Focus system may focus on the window glass instead of your subject.
3. Dark objects such as a subject's clothing may absorb the infrared light needed for Auto Focus.

If any of the above conditions exist, switch off the Auto Focus system (by moving *AUTO/MANUAL FOCUS* switch to *MANUAL* position) and then focus manually.

Note: Be sure your hand or other object does not block the Auto Focus window.

Note: When using the wide-angle lens or the lens extender (optional accessories), turn off the Camcorder's Auto Focus and focus manually. Auto Focus will not operate when these adapters are in use.

- **Manual Focus:** For manual focusing, set the *AUTO/MANUAL FOCUS* switch to the *MANUAL* position. Then, before you start recording, zoom in on your subject and adjust the *Focus Ring* so that a sharp, clear picture is displayed in the viewfinder. Using this procedure will assure that the Camcorder will maintain proper focus when the zoom lens is returned to the wide-angle position.

You also can switch quickly and momentarily from *Manual* to *Auto Focus* mode by pushing down on the *AUTO FOCUS* button. When the button is held down, automatic focus is activated and remains activated until the switch is released. This is useful if you are shooting a relatively static scene in *Manual Focus* and need to adjust for a change in scene by using *Auto Focus* quickly and momentarily.

- **Macro Focus:** For shots as close as 3/8" from your subject, place the *AUTO/MANUAL FOCUS* switch in the *MANUAL* position. Then rotate the *Zoom Ring* to the wide-angle position (11.5 on Zoom Ring). Rotate the *Zoom Ring* to the *MACRO* position by pushing in and holding the green *Macro Knob* while slowly rotating the *Zoom Ring* until you see a sharp picture.

Note: Zooming is not possible in Macro mode. To change the size of the subject, move the lens closer or further away from it. The Focus Ring has no effect in Macro mode.

Auto/Manual Iris

With the *IRIS* control in the *AUTO* position, your Camcorder electronically senses the available light in a scene and automatically opens or closes the lens iris for the best possible recording. However, you also have the option of manually opening or closing the *IRIS* control to compensate for unusual lighting.

A typical situation in which you might want to change the *IRIS* setting is when your subject appears too dark when in front of a bright background (for example, a person standing in front of a window). In this case, turn the *IRIS* control clockwise to make the subject brighter.

You can also use the *IRIS* control to "fade" in or out of a scene. Simply turn the *IRIS* control counterclockwise to fade out, and turn it back to *AUTO* to fade in.

Quick Review

During a recording session, you can review the last few seconds of a taped scene by pressing the *REVIEW* button and watching the viewfinder. The *PLAYBACK/CAMERA* switch must be in the *CAMERA* position. Quick Review helps you recall the last scene you recorded on a tape and lets you set up the next scene. After Quick Review playback, the Camcorder returns to the Record/Pause mode.

Most importantly, after you have reviewed the last scene recorded, Quick Review returns the tape to its previous point. As a result, you can use this feature and then return to recording without creating a "gap" or picture break-up between taped segments.

Color Balance

Your Camcorder is equipped with an automatic white balance system which maintains proper color balance continuously.

Basic Operation: Playback

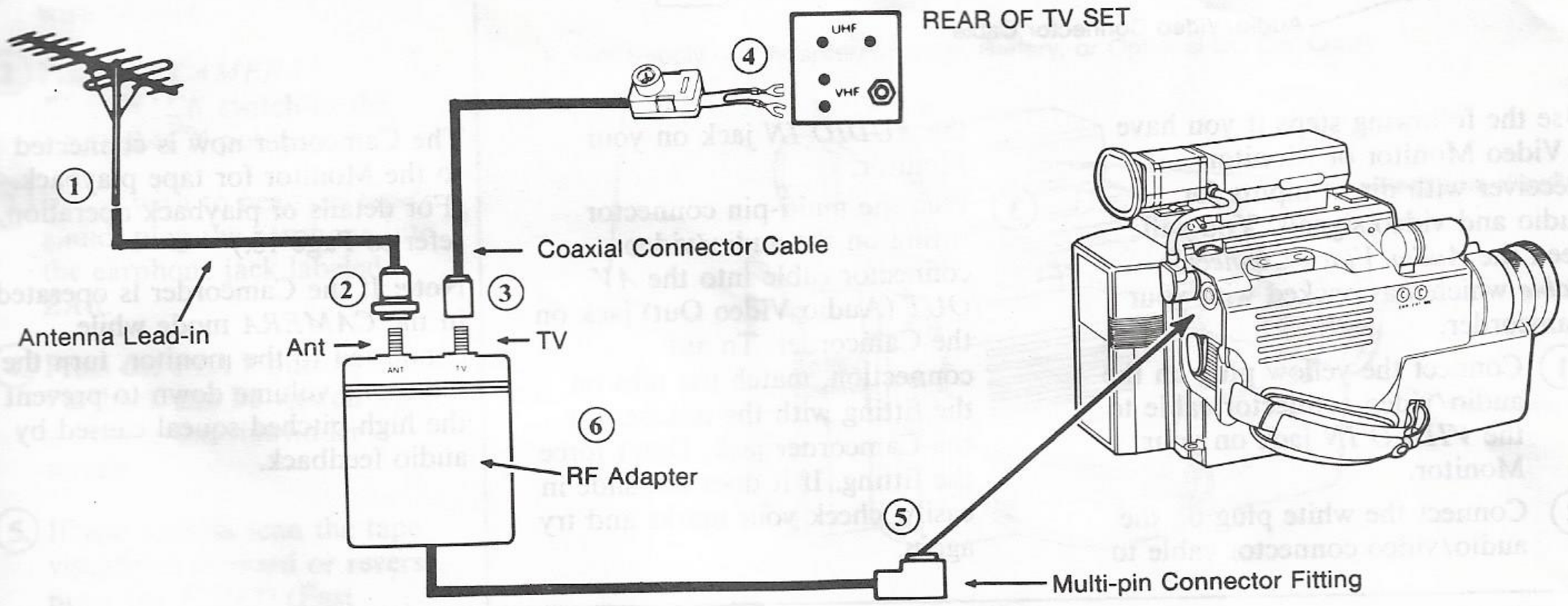
How to Play Back Tapes with Your Camcorder

Your Camcorder can play back tapes on a variety of different display devices. You can watch tape playback on the Camcorder's electronic viewfinder immediately after recording. Or you can hook up the Camcorder directly to your TV set or Video Monitor to view tapes. You even can feed the playback signal to another VCR and make copies of your home tapes.

The following instructions on pages 14-16 show you the different ways to view tapes using your Camcorder. (For instructions on using the cassette adapter supplied with your Camcorder in order to play back VHS-C compact video cassettes on a conventional VHS VCR, see page 17.)

NOTE: Although you can use the battery to power the Camcorder during tape playback, you will want to use the AC Adapter/Charger if you intend to watch more than an hour's worth of recorded material.

How to Connect Your Camcorder to a Standard TV for Playback

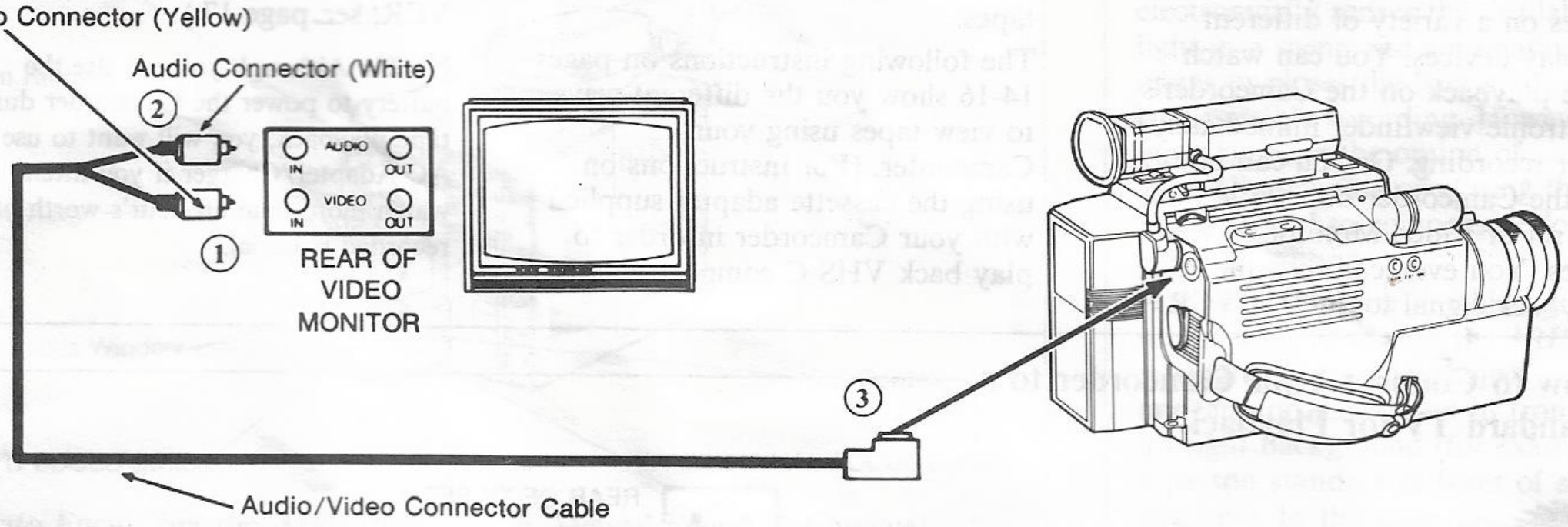


Use the following steps if you have a standard TV with a VHF antenna input. You will need the *RF Adapter* which was packed with your Camcorder. You also will need the length of supplied *coaxial cable* to connect the RF adapter to your TV.

1. Disconnect the VHF antenna from your TV set. (You can leave the UHF wires alone.)
2. Connect your VHF antenna to the *ANT* terminal on the RF adapter. (If your VHF antenna lead-in is flat twin-lead, use the 300/75-ohm transformer provided.)
3. Attach one end of the coaxial cable to the *TV* terminal on the RF adapter.
4. Connect the other end of the coaxial cable to the *VHF IN* terminal on the back of your TV. (If your TV has screw terminals, connect the adapter's flat lead connectors to the screw terminals.)
5. Plug the multi-pin connector fitting on the RF adapter into the *AV OUT* (Audio Video Out) jack on the Camcorder. To aid connection, match the tabs on the fitting with the notches on the Camcorder jack. Don't force the fitting. If it does not slide in easily, check your marks and try again. (If the Camcorder is used as a camera while connected to the TV, be sure to turn the set's volume down to prevent a high-pitched squeal caused by feedback.)
6. Set the *RF OUTPUT* switch on the RF adapter to Channel 3 or 4, whichever is not used as a broadcast channel in your area. Turn on the TV and tune it to the channel you have chosen.
7. During playback, you may fine tune the TV channel if necessary. (For details of playback operation, refer to page 16.)
8. For normal TV viewing, you may leave the RF adapter hooked up to the TV set. Just disconnect the adapter from the Camcorder or turn the Camcorder's power off.

Playback Operation, cont'd.

How to Connect Your Camcorder to a Video Monitor for Playback



Use the following steps if you have a Video Monitor or Monitor-Receiver with direct inputs for audio and video signals. You will need the *Audio/Video Connector Cable* which was packed with your Camcorder.

(1) Connect the yellow plug on the audio/video connector cable to the *VIDEO IN* jack on your Monitor.

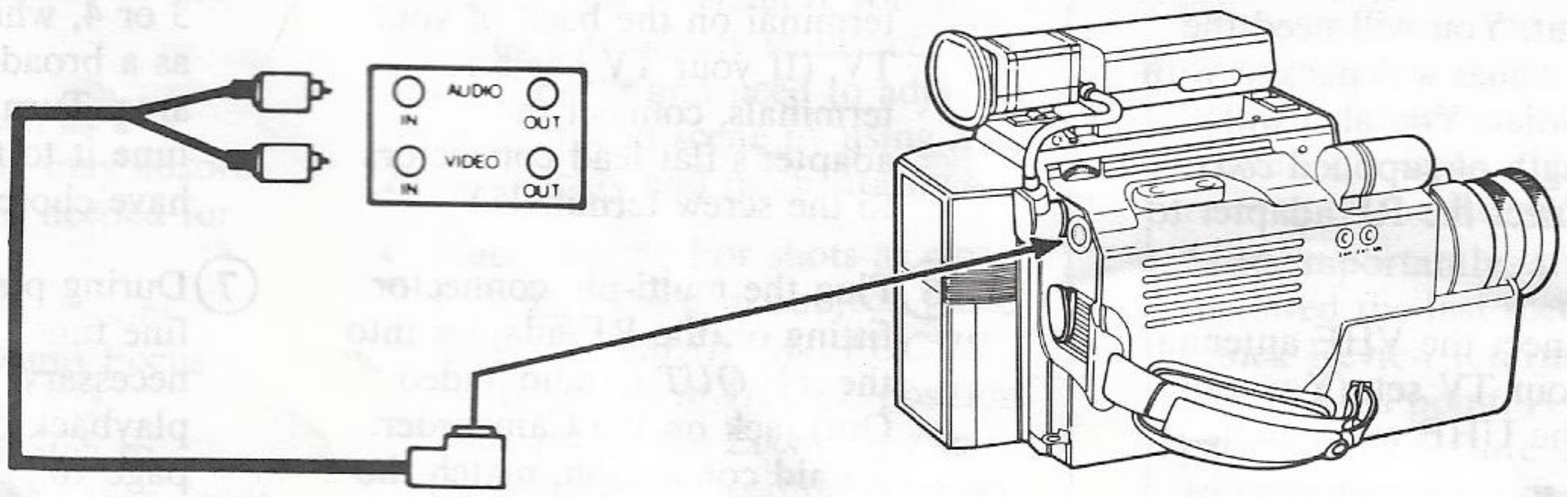
(2) Connect the white plug on the audio/video connector cable to the *AUDIO IN* jack on your Monitor.

(3) Plug the multi-pin connector fitting on the audio/video connector cable into the *AV OUT* (Audio Video Out) jack on the Camcorder. To aid connection, match the tabs on the fitting with the notches on the Camcorder jack. Don't force the fitting. If it does not slide in easily, check your marks and try again.

The Camcorder now is connected to the Monitor for tape playback. (For details of playback operation, refer to Page 16.)

Note: If the Camcorder is operated in the *CAMERA* mode while connected to the monitor, turn the monitor's volume down to prevent the high pitched squeal caused by audio feedback.

How to Connect Your Camcorder to a VCR for Tape Copying



The audio/video connector cable may also be used to connect the Camcorder's *Audio/Video Output* (*AV OUT* jack) to another VCR to make copies of tapes. For this hook-up, simply follow the procedure described above, substituting a VCR for the Video Monitor.

NOTE: RCA's optional VAA002 Video/Audio Input Adapter makes it possible to use your Camcorder to record video and audio **from** other sources such as TV Monitors, VCR's, or computers. See VAA002 Owner's Manual for connection and operation.

CAUTION: The unauthorized recording of copyrighted material may infringe the rights of others. Such recordings should not be made.

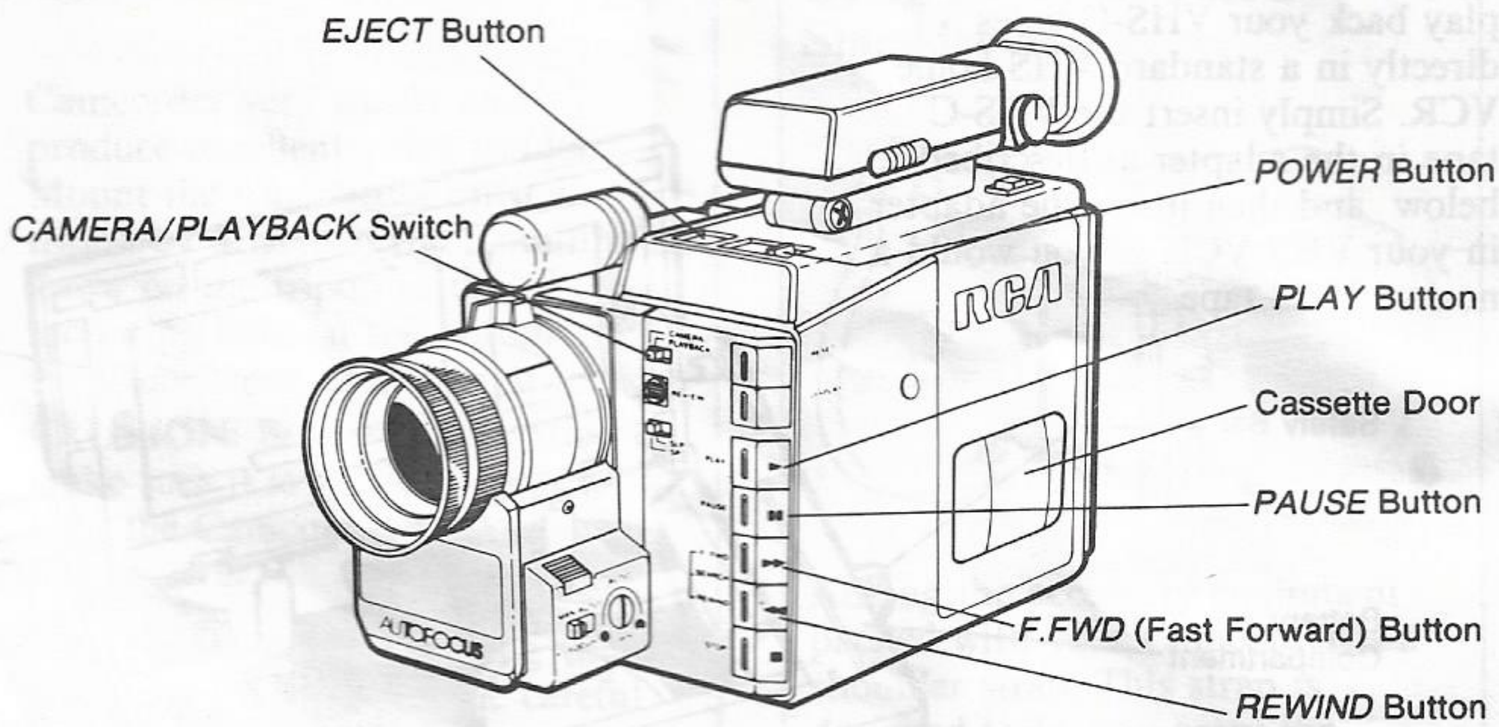
Playing Tapes Through the Viewfinder

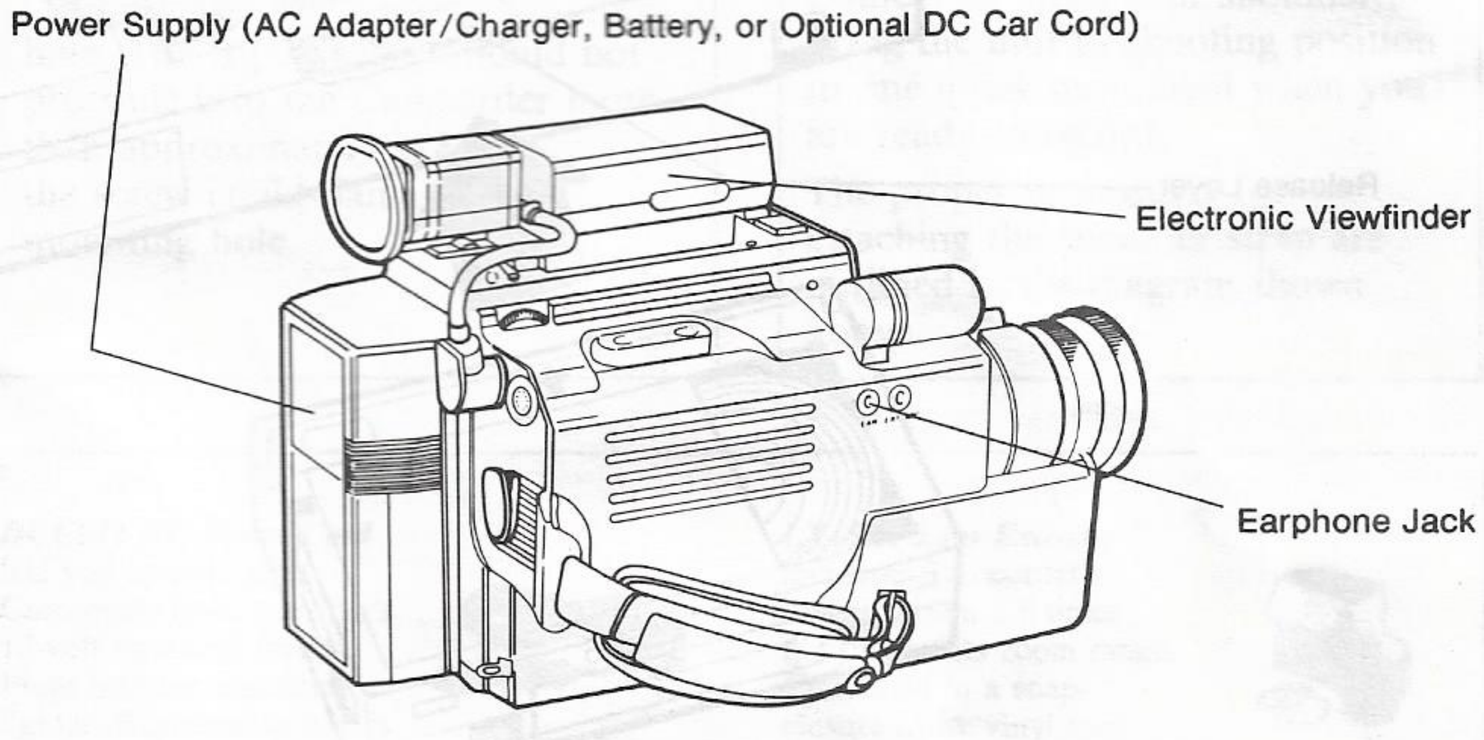
Viewfinder playback is the simplest way to watch tapes using the Camcorder. Because the display is black & white, this method generally is used only to review scenes immediately after recording.

To view a tape through the Camcorder's electronic viewfinder, follow these steps:

1. Turn the Camcorder on by sliding the *POWER* button. Then press the *EJECT* button and insert the cassette you wish to view.
2. Place the *CAMERA/PLAYBACK* switch in the *PLAYBACK* position.
3. If you wish to hear the tape's audio, plug the earphone into the earphone jack labeled *EAR*.
4. Press the *PLAY* button. Playback can be viewed by watching the viewfinder screen.
5. If you wish to scan the tape visually in forward or reverse, press the *F.FWD* (Fast Forward) or *REWIND* button while in the *Play* mode. Release the button to return to normal playback speed.
6. If you wish to stop the action, press the *PAUSE* button while in the *Play* mode. Press the *PAUSE* button* again to return to normal playback. The picture displayed in the viewfinder during *Stop Action* will be better for tapes recorded in the *SLP* speed.
7. Don't forget to rewind the cassette when you are finished viewing tape playback.

*Pause is designed for momentary interruptions and should not be used for an extended period of time. If the Camcorder remains in the Play/Pause mode for more than 5 minutes, the Camcorder automatically will shift to Stop mode to prevent excessive tape wear.





Playing Tapes Through a TV or Video Monitor

Follow these steps when you wish to play back tapes on your TV or Video Monitor (after you have connected your Camcorder to the appropriate display device).

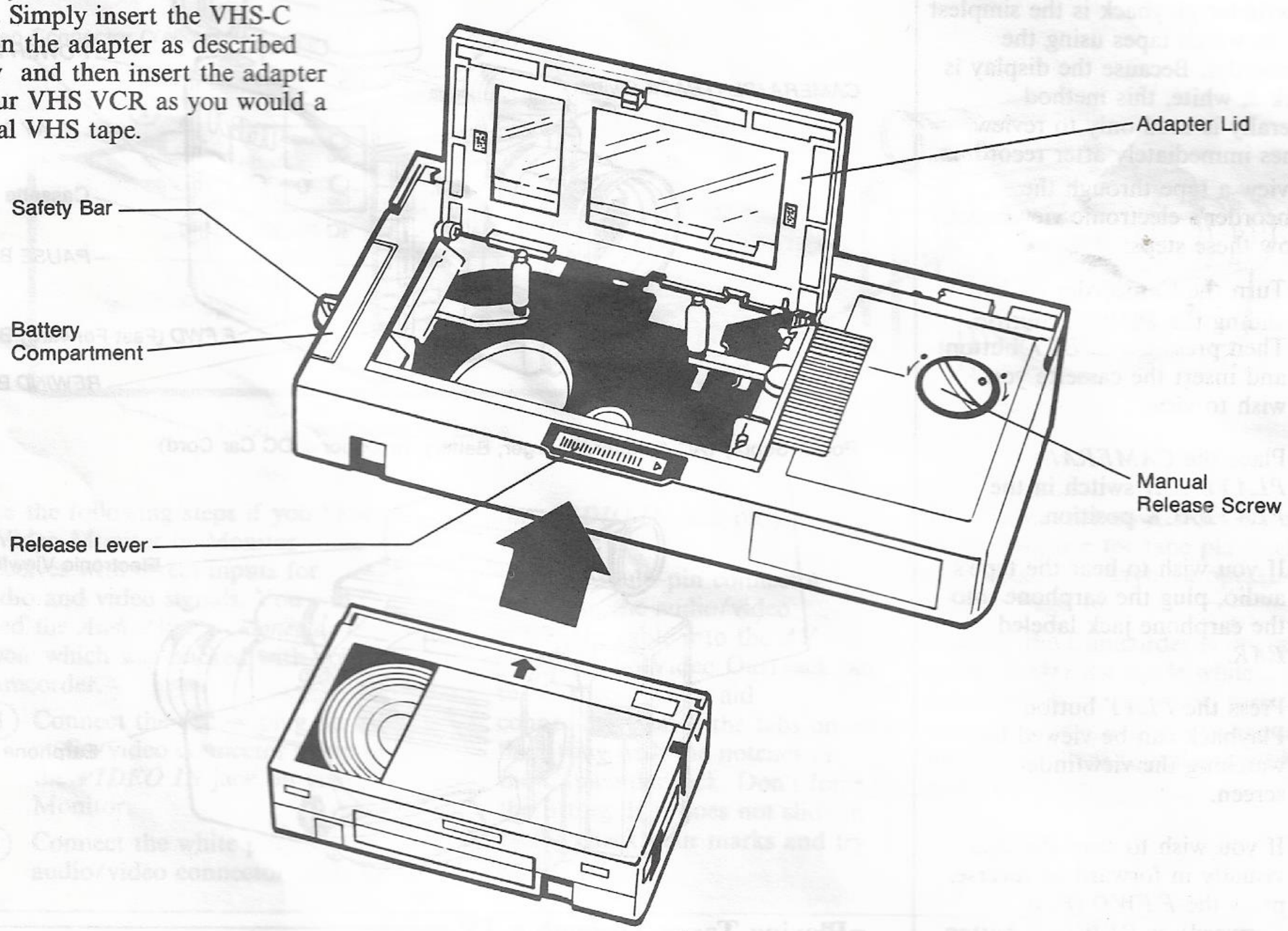
1. Turn the Camcorder on by sliding the *POWER* button. Then press the *EJECT* button and insert the cassette you wish to view.
2. Place the *CAMERA/PLAYBACK* switch in the *PLAYBACK* position.
3. Press the *PLAY* button to begin playback.
4. If you wish to scan the tape visually in forward or reverse, press the *F.FWD* (Fast Forward) or *REWIND* button while in the *Play* mode.
5. If you wish to stop the action, press the *PAUSE** button while in the *Play* mode. Press the *PAUSE* button again to return to normal playback.
6. Don't forget to rewind the cassette when you are finished viewing tape playback.

NOTE: The picture may contain some "snow" or "noise" during forward search, reverse search, and stop action. Search and stop action performance will be best for tapes recorded in the *SLP* speed.

*Pause is designed for momentary interruptions and should not be used for an extended period of time. If the Camcorder remains in the Play/Pause mode for more than 5 minutes, the Camcorder automatically will shift to Stop mode to prevent excessive tape wear.

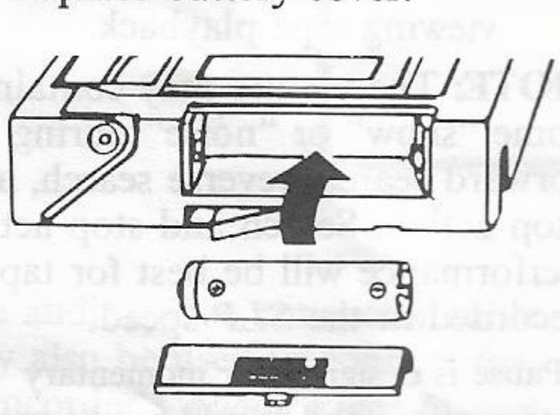
Cassette Adapter

The cassette adapter allows you to play back your VHS-C tapes directly in a standard VHS home VCR. Simply insert the VHS-C tape in the adapter as described below and then insert the adapter in your VHS VCR as you would a normal VHS tape.

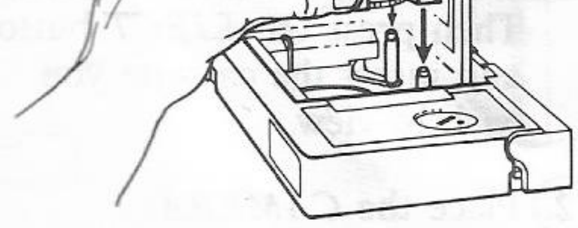


Inserting Small Cassette into Adapter

1. Open battery compartment and insert one "AA" battery. Make sure + and − ends are inserted correctly as shown inside battery compartment. Replace battery cover.



2. Slide Release Lever to the right to open adapter lid.
3. Insert VHS-C cassette, with tape window facing up and to the left. Insert cassette straight down on top of the two white posts.



4. Close the lid. Motor will drive two loading posts to move tape into position inside the adapter.

   Note that the red Safety Bar also retracts so that the adapter can now be inserted into a VHS VCR like a normal VHS cassette.

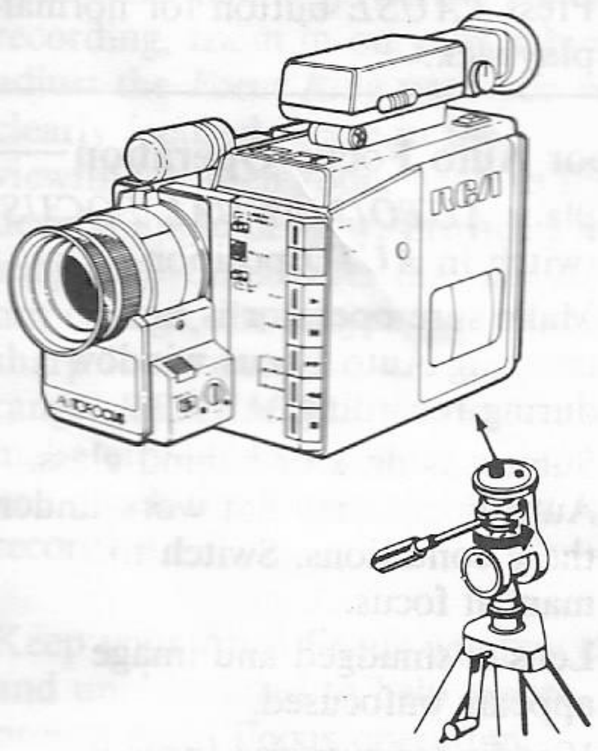
Removing Small Cassette From Adapter

1. Slide Release Lever to the right to open adapter lid. Motor will retract the tape back into the VHS-C cassette and open the adapter lid.
2. Insert one of your fingers through the small hole in the bottom of the adapter and push the small cassette up until you can easily remove it.
3. Close adapter lid.

Note: If the battery is dead, the VHS-C cassette may be loaded/unloaded manually by turning the Manual Release Screw. Use a coin to turn the screw clockwise to load the tape and counterclockwise to remove it.

Camcorder Accessories

Mounting Your Camcorder on an Optional Tripod

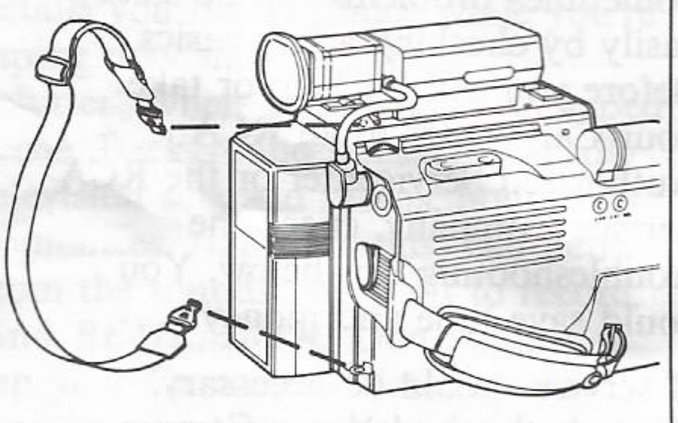


The Camcorder may be attached to a tripod when you wish to make recordings without holding the Camcorder. This will keep the Camcorder very steady and produce excellent video results. Mount the Camcorder onto a tripod by attaching the mounting screw on the tripod to the mounting hole on the bottom of the Camcorder, as shown at left.

CAUTION: Before using a tripod, make sure it is stable enough to hold the Camcorder without tipping over.

CAUTION: When attaching your Camcorder to a tripod, be careful not to force the tripod screw into the Camcorder's tripod mounting hole. The tripod screw should not protrude into the Camcorder more than approximately 3/8″. Forcing the screw could damage the mounting hole.

Using the Camcorder's Shoulder Strap

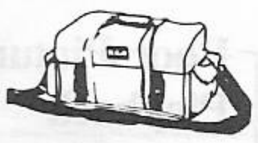


Among the accessory equipment packed with your Camcorder is a shoulder strap. This strap is designed to let you carry the Camcorder from your shoulder and bring the unit to shooting position in one quick movement when you are ready to record.

The proper procedures for attaching the shoulder strap are outlined in the diagram shown above.

Optional Accessories

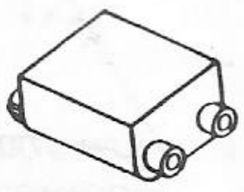
KK040 Soft Carrying Case
accommodates Camcorder and accessories.



KK044 Hard Carrying Case
affords greater protection for Camcorder and accessories when traveling.

CBC120 Long Play Battery
extends Camcorder operating time to up to two hours. Battery recharges from AC Adapter/Charger.

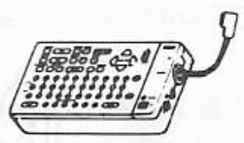
VAA002 Video/Audio Input Adapter
permits you to record video and audio from an external source. One end connects to the Camcorder's viewfinder connection, the other to a VCR, TV Monitor-Receiver, computer, or other external device. (See VAA002 Owner's Manual for complete details of connection and operation.)



DCC012 DC Power Cord
lets you operate your Camcorder from your car's 12-volt electrical system. Plugs into car cigarette lighter. Replaceable fuse is integrated into plug to protect Camcorder.

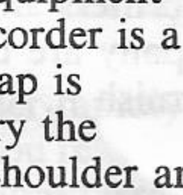
CGA020 Character Generator/Titler
makes it easy to add titles to tapes. It stores up to 20 titles in memory and also provides special effects such as "wiping" an image from the screen or ending a scene with a converging "window."

Note: Use with Shoe Adapter VEC010 to mount titler to Camcorder.



FSA036A Film Slide Adapter
permits transfer of slides to tape. Kit includes 3 step rings, 3 sizes of frame holders and 1 filter. Accommodates 35mm slides.

LX152A Lens Extender *
increases Camcorder's magnification 1.5 times throughout its zoom range. Contained in a snap-closure black vinyl case with padded interior.



WAL01A Wide Angle Lens *
expands Camcorder's field of view by a factor of .6 to permit wide panoramas without panning. Black vinyl snap-closure case with padded interior for easy-access storage.

LFK115A Special Effects Lens Filter Kit
helps you create professional special effects with mirage, polarizer, and highlighter filters. Kit includes 5-face mirage, center focus highlight, and polarizer filters plus four step rings, all contained in a rugged sectionalized vinyl case.

* Use *Manual* focus only when using this adapter.

Trouble Checks

Check This List First If You Have a Problem

Sometimes problems can be solved easily by checking a few basics. Before you call for help or take your Camcorder to an RCA Authorized Servicenter or the RCA Service Company, check the troubleshooting tips below. You could save time and money.

If service should be necessary, RCA Authorized Video Camera Servicenters and the RCA Service Company are trained and equipped to furnish it.

No Power (indicator will not come on)

- If using battery, recharge.
- If using AC Adapter/Charger, make sure unit is plugged into working outlet.

Won't Record or Play Back

- If Power light is blinking, there is moisture in unit. Leave power on and wait for light to stop blinking.
- No cassette in Camcorder.
- Eject and reinsert cassette.
- Broken tape; try another cassette.
- End of tape; rewind cassette.

Won't Play Back

- Place *CAMERA/PLAYBACK* switch in *PLAYBACK* position.

Won't Record

- Safety tab has been removed from cassette. (See page 3.)
- Place *CAMERA/PLAYBACK* switch in *CAMERA* position.

Tape Stops During Rewind

- Memory function is active. Press *REWIND* button again.
- Tape already is rewound.

No Picture in Viewfinder (EVF)

- Check EVF cable connection.
- Remove lens cap.

Blinking "E" in Viewfinder (EVF)

- Battery is about to run out of power. Charge battery or find an alternate power source before continuing.

Blinking "REC" in Viewfinder (EVF)

- Tape remaining will record for only five minutes. Change cassettes before continuing to record.

Camcorder Remains in Still Frame Mode

- Press *PAUSE* button for normal playback.

Poor Auto Focus Operation

- Place *AUTO/MANUAL FOCUS* switch in *AUTO* position.
- Make sure operator is not covering Auto Focus window during recording.
- Subject is dark or behind glass. Auto Focus may not work under these conditions. Switch to manual focus.
- Lens is smudged and image appears unfocused.
- Viewfinder eyepiece focus is misadjusted. (See Page 12.)

Poor Picture Quality During Recording

- Insufficient light. If picture looks too dark in the viewfinder with *IRIS* control in *AUTO* position, add light to scene.

Poor Picture Quality During Playback

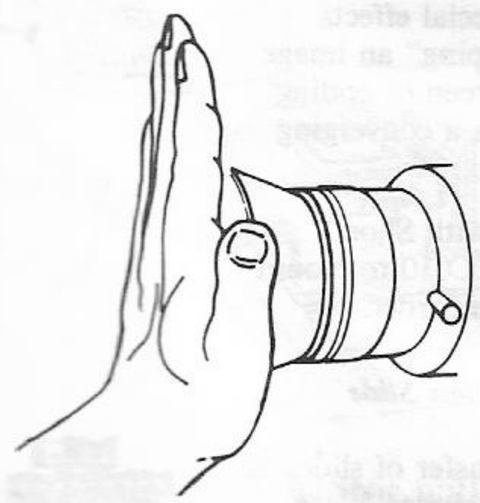
- If picture contains black and white streaks, adjust *TRACKING* control to correct.
- Using the *SP* speed will provide the best playback picture quality.

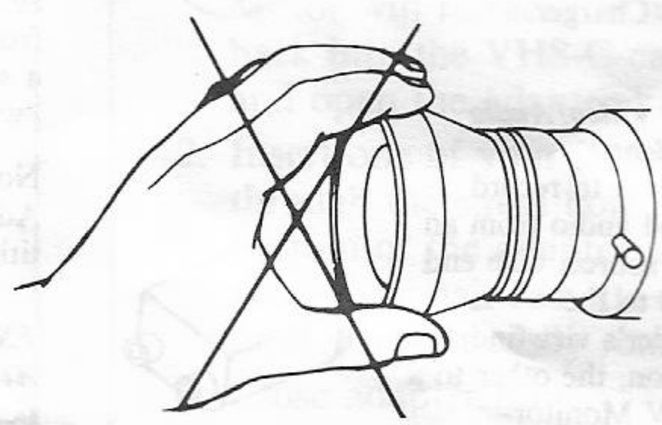
Removing Lens Hood

The Lens Hood can be removed so you can attach optional accessories like the Wide-Angle Lens, Lens Extender, Lens Filter Kit, and Film Slide Adapter.

The correct way to remove the Lens Hood is shown here. Do not grasp the end of the Lens Hood.

To remove Lens Hood, put hand flat against lens hood and turn it counterclockwise.





Making Better Videos

Camcorder Recording Tips

Use your Camcorder's zoom to help you focus manually. Before you start recording, zoom in on your subject, adjust the *Focus Ring* until you see a clearly focused image in the viewfinder, then zoom back to the desired angle of view. Provided the subject-to-Camcorder distance does not change, the subject will remain in sharp focus over the entire zoom range. *REMEMBER:* It's easier to make professional-looking videos if you check the focus before you start recording.

Keep your Auto Focus window clean and unobstructed to help assure proper Auto Focus operation.

Don't move your Camcorder's *Zoom Lever* quickly when controlling the zoom lens manually. A slow, constant speed gives your manual zooms a more professional look on tape.

Try to make sure indoor scenes you record are well-lit. This improves picture quality and color reproduction.

Avoid long "still" shots of landmarks and scenic attractions. Your recordings will be more interesting if they include people and detail. "Local color" will give your travel videos lasting appeal. Consider taping a familiar or landmark scene from an unfamiliar vantage point to give your tape added interest. Remember to check your lighting before recording.

Practice recording under a variety of lighting conditions. This will help prepare you to respond whenever you see a scene you want to tape.

Try to avoid taping backlit subjects indoors. Bright light behind your subject may cause it to appear very dark and low in detail. Adjusting your *IRIS* control can help overcome this problem.

Include close-up shots of individuals when taping a family outing or other group functions. These close-ups make your video memories special.

Be aware of video and audio backgrounds. Background visual details you barely notice while you're taping may show up as visual "clutter" when you review your taped scene. Background noises (especially television sets and radios, household appliances, traffic sounds) can detract from the sounds you want to record. And *REMEMBER:* Don't bump or tap your Camcorder's microphone while you're taping, because this sound will be recorded on your tape!

Don't move the Camcorder rapidly from side to side while you're recording. A steady, gradual "pan" avoids blurring and jitter in your taped scene.

Keep your Camcorder level while taping. Otherwise, your scenes will appear tilted. Keep a close eye on this in your viewfinder!

Travelling Tips

Make sure you have any plug adapters you may need *before* taking your Camcorder to other countries. Ask your RCA dealer for advice. This will assure that you can power your Camcorder and AC Adapter/Charger as needed.
Jot down your Camcorder's serial number and keep this note separate from your equipment when travelling. If your Camcorder is lost or stolen, you will be able to identify it.

Double check your equipment before taking your Camcorder on a trip or outing. Make sure you have with you all the equipment and accessories you'll need. Compiling a checklist makes it easy to be prepared. Bring this Owner's Manual with you for handy reference.

Make a list of sights and scenes you wish to record on a trip. This will help assure that you don't miss an important recording. Be alert for unexpected interesting scenes as well.

Don't leave your Camcorder and tapes in a car for more than a brief period. Excessive heat or cold can damage them.

Use extra care and caution to avoid damage to your Camcorder and accessories when operating them at a beach or pool. Spray, sand and dust should be avoided. Clean your lens gently and thoroughly if it has been exposed to the elements. Remember to use only proper lens cleaning supplies available at camera stores to protect your lens.

Carry your Camcorder in a proper case when travelling. (See Page 18 for RCA's specially designed Soft and Hard Carrying Cases.) An ordinary suitcase or carry bag doesn't offer the protection and custom fit your Camcorder needs. For safety, treat your Camcorder as carry-on baggage to protect it from rough handling.

Tape Tips

Don't try to use a tape if it has been damaged or exposed to moisture. The tape may jam or damage your Camcorder.

Remember to break off the safety tab on your cassettes after making an important recording. This will help you safeguard crucial tapes from accidental erasure.

Remember to label your tapes before storing them. Preparing your label before you use your tape helps assure that you will know what it contains.

Be careful not to misplace tape boxes. These are essential for proper tape storage. If a tape box becomes wet, do not use it. It can damage your tape and Camcorder.

Care and Maintenance

Proper Care of Your Camcorder

- Be especially careful to keep dust from entering the Camcorder's cassette door. Dust and grit are abrasive and will cause excessive wear both of tapes and of the recording/playback heads.
- RCA recommends that RCA compact video cassettes be used with this unit. These tapes have been manufactured to RCA's critical specifications. Use of tapes not meeting these specifications could reduce the performance of your Camcorder considerably.
- Use of poor quality tapes can contaminate the video heads, resulting in a snowy picture or no picture at all during playback.
- Playing a new RCA tape for approximately 15 minutes may satisfactorily clean the heads and improve the picture. If a snowy picture or no-picture condition persists, consult your authorized RCA servicenter or the RCA Service Company.
- Always replace the lens cap on the lens when the Camcorder is not in use.
- To clean the lens, always use lens-cleaning tissues and a commercially prepared cleaning solution designed for use on camera lenses. Improper cleaning can scratch the lens. *Do not touch the lens with your fingers!* The oil from your skin can damage the lens.

Things to Avoid

- Do not attempt to disassemble your Camcorder. There are no user-serviceable parts inside it.
- *Never attempt to force open the cassette door.* If the battery reaches its empty level during recording, the Camcorder will shut off. To open the cassette door and remove the tape, simply recharge the battery or power your Camcorder with the AC Adapter/Charger before attempting to eject the tape.
- Do not use the Camcorder in extremely humid environments.
- Do not use the Camcorder for extended periods in temperatures below 40°F or above 95°F.
- Do not expose the Camcorder or AC Adapter/Charger to rain or moisture. If either component becomes wet, immediately turn off power and take the unit to the RCA Service Company or an RCA Authorized Video Camera/Camcorder Servicenter.
- Do not use an AC Adapter/Charger other than the one specified for your Camcorder. Your AC Adapter/Charger should be operated on power line voltages of 100-240 volts AC, 50/60 Hz.
- Do not operate your Camcorder in a strong magnetic field. Otherwise, you risk interference to or erasure of recorded information.

Storing Your Camcorder

- Store and handle your Camcorder so that it is not subjected to swinging, shaking, or dropping. The Camcorder can be damaged by improper storage or handling.
- Don't store the Camcorder in temperatures below −22°F or above 149°F.
- Always remove the cassette and AC Adapter/Charger or battery from the Camcorder when the Camcorder is not in use. If you are not using your VHS-C Cassette Adapter to play VHS-C cassettes on a standard VHS VCR, remove the battery from it as well.
- Retain the original carton for future storage or shipping purposes.

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Specifications

General

Power requirement: 12VDC
Power consumption: 8.5 watts (nominal)
Weight: 3.1 lbs. (1.4kg)
Dimensions (WxHxD):
in: 4-5/8 x 6-1/4 x 8-9/16
mm: 118 x 161 x 217

Video Recorder Section

Format: VHS-C
Record/Playback System:
Four video record/playback heads
Video Signal: EIA Standard NTSC Color

Camera Section

Scanning: 525 Lines/60 Fields/30 Frames
Required Minimum Illumination: 1 foot-candle (10 lux)
Pickup Device: 2/3" solid state MOS Imager
Tripod Mount: One 1/4" x 20 threaded hole
Lens Diameter: 46mm

RCA Limited Warranty

What does your warranty cover:

- Any defect in material or workmanship.

For how long after purchase:

- Ninety days for labor charges.
- One year for parts.
- The warranty period for rental Camcorders begins with the first rental

What will RCA do:

- Pay any RCA Authorized Video Camera/Camcorder Servicenter the labor charges to repair your Camcorder.
- Provide new or, at our option, rebuilt replacement parts and pickup device to enable the RCA Video Camera/Camcorder Servicenter to make necessary repairs.

How do you get service:

- Take your Camcorder to any RCA Authorized Video Camera/Camcorder Servicenter or to the RCA Service Company. For their names and locations, ask your dealer or RCA Distributor or look in the Yellow Pages.
- Show the service technician your Warranty Registration or evidence of purchase date.
- Pick up your Camcorder when repairs are completed.

What your warranty *does not* cover:

- Transportation to and from the Servicenter.
- Customer instruction. Your Owner's Manual provides information regarding operating instructions and user controls. For additional information, ask your dealer.
- Cleaning of video/audio heads, which is normal maintenance.
- Damage from misuse or neglect.
- Camcorders which have been modified or incorporated into other products.
- Camcorders purchased or serviced outside the USA.
- Batteries for Cassette Adapter.

How does state law relate to this warranty:

- This warranty gives you specific legal rights. You also have other rights which vary from state to state.

What if you purchased your Camcorder in Canada:

- Refer to the Canadian warranty.

Si un livret d'instructions en français n'est pas inclus avec votre appareil, vous pouvez en obtenir un (INDIQUER LE NUMÉRO DE MODÈLE, VOTRE NOM ET VOTRE ADDRESSE) en vous addressant à:

RCA Inc.
Service de données techniques
5575 av. Royalmount,
Ville Mont-Royal, Québec, Canada
H4P 1J8

RCA Corporation
Consumer Electronics Division
600 N Sherman Dr, PO Box 1976
Indianapolis, IN 46206-1976

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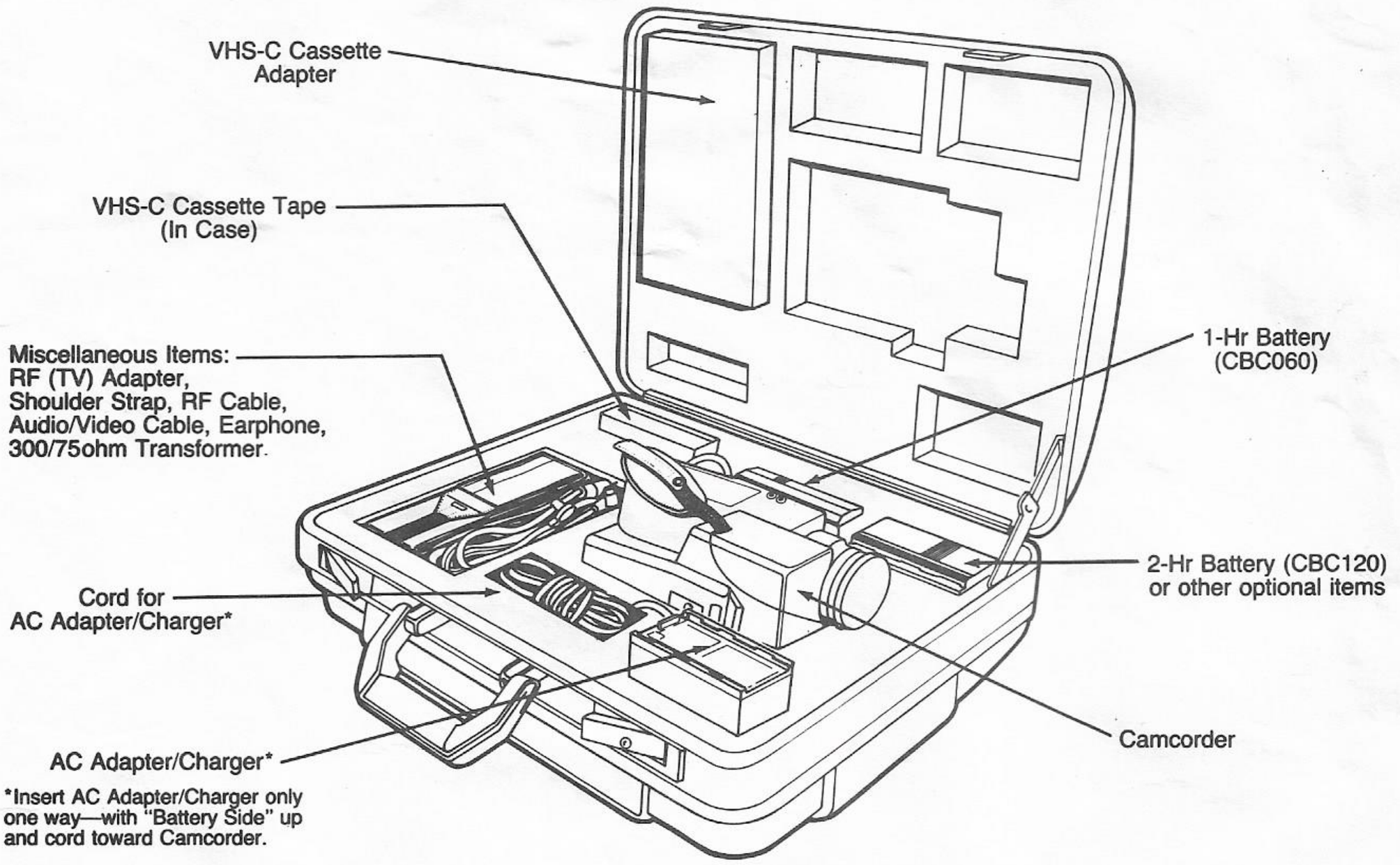
Part Number 2826 070-1
Printed in Japan
Job #A-42500
E72118
4653371

RCA Video Camcorder Carrying Case

KK044

The KK044 Carrying Case is designed to provide convenient, protective storage for your RCA Video Camcorder and its standard accessories. The illustration below shows how to pack your Camcorder and accessories in the case.


VHS-C Cassette Adapter
VHS-C Cassette Tape (In Case)
Miscellaneous Items: RF (TV) Adapter, Shoulder Strap, RF Cable, Audio/Video Cable, Earphone, 300/75ohm Transformer.
Cord for AC Adapter/Charger*
AC Adapter/Charger*
*Insert AC Adapter/Charger only one way—with "Battery Side" up and cord toward Camcorder.
1-Hr Battery (CBC060)
2-Hr Battery (CBC120) or other optional items
Camcorder

CAUTION: To avoid possible damage to your KK044 Case and/or Camcorder, do not use the carrying case as a shipping container or send it as checked luggage. Use the original Camcorder box and packing material for shipping, or put the Camcorder in the KK044 Case and then pack the Case in a sturdy, padded carton.

YOUR RCA LIMITED WARRANTY

RCA KK044 Camcorder Case Limited Warranty

RCA Corporation warrants that for initial use the KK044 Case is free from defects in material or workmanship. If the case is defective upon initial use, return it promptly to the dealer from whom it was purchased and exchange it for a new one. This warranty excludes defects or damage due to misuse or neglect.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL RCA BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHETHER CONTRACT, TORT, OR NEGLIGENCE.

For purchases in Canada, refer to Canadian warranty.

RCA Corporation
Distributor and Special Products Division
2000 Clements Bridge Rd
Deptford, NJ 08096-2088

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Part Number 2826477-2

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RCA Inc.
Service des données techniques
5575 Ave. Royalmount,
Ville Mont-Royal (Québec) Canada
H4P 1J8